# NPAM Coordinator Database User Guide

**v2** 

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Written to accompany the NPAM Coordinator Database v8

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## Introduction

The NPAM Coordinator Database User Guide is intended for use by the NPAM Project Coordinator. It is a step-by-step guide describing how to use the NPAM Coordinator Database to complete the annual steps that import and process the NPAM vegetation and management data. These steps are to be completed after the data have been entered into the centralized SharePoint NPAM Database by NPAM cooperators for the current management year. The result of the processing steps is updated model weights, management recommendations per unit for the upcoming management year, and a summary report of the state of each management unit from NPAM inception (2009) to the most recent management year. Additionally, there are various summary report options available for the coordinator to summarize NPAM vegetation and management data by year and over various spatial scales.

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# **Coordinator Database: Coordinator User Guide**



Figure 1: Database Main Menu

The coordinator database is used to review flagged records, reclassify unclassifiable actions, and produce summary reports. A detailed description of each step is provided below.

## Main Menu

## Step A:

When the coordinator opens the database, the Main Menu appears (Figure 1). First, the coordinator must click "First Time Setup". This will connect the database to three other databases: "Grassland\_Monitoring", "grassmon\_lookup" and "Grassland\_Ancillary". Each database must be in the DB folder, which must be located in the same place as the NPAMV6\_6 database. The database "Grassland\_Monitoring" was used to hold all the monitoring data in previous versions of the database. Currently, it holds several tables

necessary for the coordinator tasks. The database "grassmon\_lookup" was used to store the lookup tables, some of which are necessary for the coordinator tasks. The database "Grassland\_Ancilllary" is used to update the management unit information, management restrictions, and window dates.

When the coordinator clicks the "First Time Setup" button, three alerts appear:



If any of the databases are not in the correct location, the coordinator will receive the following alert:

Microsoft Access	
An error has occured. Yo file/folder.	u either moved, deleted or renamed a required
	ОК

## Step B:

Once the "First Time Setup" has been completed successfully, the coordinator then imports data from SharePoint using the "Import SharePoint Data" button. It is necessary for the coordinator to be connected to the SharePoint site in order to import the data. This is accomplished by opening Internet Explorer and logging on to the NPAM site. If the coordinator is not connected, he/she will get an alert:



The coordinator will also be alerted if the import was successful:



This step downloads and updates the tables Mgmt\_Units, Transects, tbl\_Actions,

tbl\_PlantGroups\_Monitoring and tbl\_Special\_Treatment. Every time the data is downloaded, a copy of it is added to the archive table: tbl\_Actions\_Archive,

tbl\_PlantGroups\_Monitoring\_Archive, tbl\_Special\_Treatment\_Archive. Note that any time that the SharePoint data is imported, all processing steps must be rerun to incorporate any changes to the SharePoint data that occurred since it was last imported.

## Step C:

Once the data have been imported from SharePoint, the coordinator clicks the "Coordinator Actions" button. This brings up the Coordinator Actions screen:

# **Coordinator Actions Screen**

## **Processing Actions Tab**



#### Figure 2: Coordinator Actions Screen

The screen contains three tabs: Processing Actions, Summaries, and Previous Years' Reports. The Processing Actions tab has 6 buttons that appear grayed out. The buttons become enabled as steps are completed. To begin, the coordinator selects a Management Year. Only management year 2011 and years for which SharePoint data have been imported will appear in the dropdown.

Coordinator Actions				23
Processing Actions	Summaries	Previous Years' Reports		
Management Year: Step 1: Identify Units Unclassifiable	2011 2012 2013 Actions	the updating process, click this button to a list of actions that require coordinator input.		

Once the coordinator selects a year, the Step 1 button becomes enabled:



#### Step 1:

The coordinator clicks the Step 1 button to identify units with unclassifiable actions. The coordinator is alerted that the process is running:

Microsoft /	Access	J
0	The necessary data tables for the updating process are now being compiled. This process may take several minutes. You will receive an alert once the process is complete.	
	ОК	

If the processing has already been performed, the coordinator is alerted:

Tables Exist
The updating tables already exist. Would you like to re-run the processing step? This will over-write the existing tables. Re-run?
Yes No

If the coordinator selects "No", the processing steps will not be re-run and the Step 2 button will become enabled:



If the coordinator selects "Yes", the processing will be re-run and the coordinator will be alerted:



When the processing is complete, a message will appear:



At this point, Step 2 will become enabled.

#### Step 2:

The coordinator clicks on Step 2 to review and modify actions marked as flagged or unclassifiable.



Figure 3: Review Flagged and Unclassifiable Actions Screen

The top portion of the screen has buttons for Mixed Grass Units. Based on the classification rules, mixed grass units cannot have unclassifiable actions, so a button only appears for reviewing flagged actions. The bottom half of the screen shows the buttons for Tall Grass Units. There is a button for reviewing flagged actions and a separate button for reviewing unclassifiable actions. The coordinator can choose any of these buttons to begin.

#### Step a:

When the coordinator clicks "Review Flagged Actions" under the Mixed Grass Units section, the following window appears:

Year:       2011       Complex:       HURON WMD       Unit:       Mills Unit 2         .Grassland:       Mixed Grass Prairie       Org:       BUFFALO COUNTY WPA       Acres:       100.247         .Management Action Information						
.Grassland:       Mixed Grass Prairie       Org:       BUFFALO COUNTY WPA       Acres:       100.247         .Management Action Information	Year:	2011 Complex:	HURON WMD	Unit:	Mi	lls Unit 2
Management Action Information       Burn Data       Graze Data         Management Number:       1 of 1         Management Type:       Graze         Start Date:       6/13/2011         End Date:       6/27/2011         Proportion of Unit Treated:       0.539         Comments:       cattle were only able to graze 54 acres due to high water         Classifications       Coordinator Tasks         Classification for Action:       GRAZE         Classification for Unit:       GRAZE	.Grassland: Mixed Grass P	rairie Org:	BUFFALO COUNTY WPA	Acres:		100.247
Management Number:       1 of 1         Management Type:       Graze         Start Date:       6/13/2011         End Date:       6/27/2011         Proportion of Unit Treated:       0.539         Comments:       cattle were only able to graze 54 acres due to high water         Classifications       Coordinator Tasks         Classification for Action:       GRAZE         Classification for Unit:       GRAZE	Management Action Informa	tion	Burn Data		Graze Data	
Management Type:       Graze       Burn Cover:       Utilize:       Slight (1 to 2         Start Date:       6/13/2011       Burn Intensity:       Number of Animals:       Animal Type:       Cow/Call r         Proportion of Unit Treated:       0.539       Stocking Rate:       Stocking Rate:       Stocking Rate:         Comments:       cattle were only able to graze 54 acres due to high water       Coordinator Tasks       Coordinator Tasks         Classifications       GRAZE       Check here to mark record as reviewed       Reclassified Action:       Numerical Stocking	Management Number:	1 of	1 Fire Type:		Graze Length:	
Start Date:       6/13/2011         End Date:       6/27/2011         Proportion of Unit Treated:       0.539         Comments:       cattle were only able to graze 54 acres due to high water         Classifications       Coordinator Tasks         Classification for Action:       GRAZE         Classification for Unit:       GRAZE	Management Type:	Graze	Burn Cover:		Utilize:	Slight (1 to 20
End Date:       6/27/2011         Proportion of Unit Treated:       0.539         Comments:       cattle were only able to graze 54 acres due to high water         Classifications       Coordinator Tasks         Classification for Action:       GRAZE         Classification for Unit:       GRAZE	Start Date:	6/13/2011	Burn Intensity:		Number of Animals:	2
Proportion of Unit Treated:       0.539       Stocking Rate:         Comments:       cattle were only able to graze 54 acres due to high water         Classifications       Classification for Action:       GRAZE         Classification for Vnit:       GRAZE       Check here to mark record as reviewed	End Date:	6/27/2011			Animal Type:	Cow/Calf p
Comments: cattle were only able to graze 54 acres due to high water  Classifications Classification for Action: Classification for Unit: GRAZE Classification for Unit: GRAZE						
Classification for Action:     GRAZE     Check here to mark record as reviewed       Classification for Unit:     GRAZE     Reclassified Action:	Proportion of Unit Treated: Comments: cattle were	0.539 only able to gra	ze 54 acres due to high water		Stocking Rate:	
Classification for Unit: GRAZE Reclassified Action:	Proportion of Unit Treated: Comments: cattle were	0.539 only able to gra	ze 54 acres due to high water	pordinator Tasks	Stocking Rate:	
	Proportion of Unit Treated: Comments: cattle were -Classifications - Classification for Action:	0.539 e only able to gra	ze 54 acres due to high water	pordinator Tasks Check here to 1	Stocking Rate:	:d
	Proportion of Unit Treated: Comments: cattle were Classifications Classification for Action: Classification for Unit: Coordinator Comments	0.539 e only able to gra	ze 54 acres due to high water	oordinator Tasks Check here to r Reclassified Act	Stocking Rate:	ed 🗸
	Proportion of Unit Treated: Comments: cattle were Classifications Classification for Action: Classification for Unit:	0.539	ze 54 acres due to high water GRAZE GRAZE	oordinator Tasks Check here to n Reclassified Act	Stocking Rate:	:d
	Proportion of Unit Treated: Comments: cattle were Classifications Classification for Action: Classification for Unit: Coordinator Comments	0.539 e only able to gra	ze 54 acres due to high water GRAZE GRAZE	oordinator Tasks Check here to n Reclassified Act	Stocking Rate:	:d

Figure 4: Mixed Grass Flagged Actions Screen

The window shows the information for each flagged mixed grass action. The records are ordered alphabetically by Complex, Org, Unit and Management Number. The basic unit information is listed at the top of the form. In the middle portion of the form, the management action information and burn or graze data are listed. "Management number \_ of \_" indicates whether the action is one of many actions performed on the unit. The bottom portion of the form shows the treatment classification for the action and for the unit. Fields highlighted in yellow indicate the reason the action was flagged. A management record is flagged for the coordinator to scrutinize if any of the following are true:

- Fire Type = Wildland
- Burn Cover < 50 (i.e., 0-10, 10-20, 20-30, 30-40, 40-50)
- Utilize < Moderate 21-40% (i.e., Unused 0% or Slight 1-20%)
- Graze Length < 7 days
- Proportion of Unit Treated (i.e., treatment acres/unit acres) < 0.95
- The comment field is not null
- A special treatment was entered for the unit

In the screen shot above, the record was flagged because less than 95% of the unit was treated, the graze utilization was less than Moderate, and a comment had been entered.

If a record was flagged because a special treatment had been entered for the unit, an additional button outlined in yellow will appear:

Year:	2011 Complex		KUL	M WMD	Unit:		Cornell 2
.Grassland: Mixed Grass Pri	airie Org:		LA MOURE COU	NTY WPA	Acres:		40.342
Management Action Informat	ion	1	Burn Data			Graze Data	
Management Number:	1 0	f 3	Fire Type:		Prescribed	Graze Length:	
Management Type:	Burn		Burn Cover:		90-100	Utilize:	
Start Date:	5/6/2011		Burn Intensity:	Moderate	ely Burned	Number of Animals:	
End Date:	5/6/2011					Animal Type:	
Proportion of Unit Treated:	1					Stocking Rate:	
Classifications		BURN	View Speci	al	Coordinator T	asks e to mark record as review	red
Classification for Unit:	BUR	N/GRAZE	Treatmen	ts	Reclassifie	d Action:	×
Coordinator Comments							

Figure 5: Mixed Grass Flagged Actions Screen with View Special Treatment button

When the coordinator clicks the 'View Special Treatments' button, a list of the special treatments entered for that unit will appear:

Specia	I Treatments	5				
Complex:	KULM WMD					
Unit:	Cornell 2					
Description				Start Date	End Date	Acres Treated
				7/01/0011	0.100.1001.1	2
A				7/01/0011	0.100.1001.1	2
Spot mowing fr	or weed control			772172011	8/22/2011	2
Spot mowing f	or weed control			//21/2011	8/22/2011	2
Spot mowing f	or weed control			772172011	8/22/2011	2
Spot mowing h	or weed control			7/21/2011	872272011	2

When the coordinator is finished reviewing the special treatment, he/she closes the popup screen by clicking on the "x" in the upper right hand corner.

To aid the coordinator, pop-up help menus appear when the coordinator places the cursor inside the treatment classification text boxes:



The coordinator tasks are highlighted by the red box in the bottom right hand corner. The coordinator must mark the record as reviewed by clicking the checkbox in the bottom right hand corner of the screen. Below the check box is a dropdown box with options for reclassifying the action:



The coordinator can choose to either leave the action unchanged ("No Reclassification"), reclassify it as a "Rest", or reclassify it as a "Non-NPAM Action". The coordinator may choose to reclassify a record as a "Non-NPAM Action" if, based on the information provided, she/he concludes that it does not conform to the NPAM management action guidelines. If the coordinator reclassifies the individual action as a non-NPAM action, the overall action for the unit will become "Unclassifiable". The Coordinator will have an opportunity to review the classified action for the unit in Step 3 and determine if it will remain "Unclassifiable" or be reclassified as one of the recognized NPAM actions. The details of reclassifying unit-level actions are discussed below in Step 3.

The coordinator must indicate that each flagged record has been reviewed and must select a reclassification action from the dropdown list before proceeding. In addition, the coordinator has the option of entering any comments in the Coordinator Comments box at the bottom of the screen; this field is not required.

The coordinator can navigate to the next record by using the navigation buttons at the bottom of the form:

Classification for Action:	GRAZE	Check here to mark record as reviewed	
Classification for Unit:	GRAZE	Reclassified Action: No Reclassification	-
Coordinator Comments		No Reclassification Rest	
		Non-NPAM Action	

When the coordinator is done reclassifying the records, the "x" in the upper right hand corner of the form can be used to close the form.

#### Step b:

When the coordinator clicks on the "Review Flagged Actions" button under the Tall Grass Units section, the following form appears:

Unit Information					
Year: 2	011 Complex:	MORRIS WM	D Unit:	Hillman C	
Grassland: Tall Grass Pra	airie Org:	BIG STONE COUNTY WP	Acres:	104.058	
Management Action Informat	ion		ation		
Management Number:	1 of	1 Fall Start Date:	St	oring Start Date: 5/14/2011	
Management Type:	Graze	Fall End Date:	St	oring End Date: 6/4/2011	
Start Date:	6/11/2011			-, ,,	
End Date:	7/29/2011	Win	dow Length:	21	
Proportion of Unit Treated:	0.971				
Burn Data		Graze Data			
Dhanalaan		Phenology start:	4	AFTER Window start:	After
Phenology:		Phenology end:	1	AFTER Window end:	After
Fire Type:		Graze Length:		48 Graze Window Length:	0
Burn Cover:		Utilize:	Moderate (21 to	40%) END:	-55
Burn Intensity		No. of Animals		69 BEFORE:	-28
Windows		Animal Type	Multiple classes of ar	nimal AFTER:	55
window.		Stocking Rate:		0.9 COVER:	0
Comments: 4 bulls, 65	cow/calf pairs			Coordinator Tarkr	
				Check here to mark record	as reviewed
Phenology Classified:	DEFOLIATE	Classification for Action	DEFOLIAT		
Pheno-Window:	DEFOLIATE	Classification for Unit:	DEFOLIAT	E Reclassified Action:	*
Coordinator Comments					

Figure 6: Tall Grass Flagged Actions Screen

The records are ordered alphabetically by Complex, Org, Unit, and Management Number. The top portion of the form shows the unit information. The next section contains the basic management action information, as well as the start and end dates of the fall and spring windows and the length of the window for the season in which the management action was implemented (fall is 1 Sep – 31 Dec; spring is 1 Jan – 31 Aug). The next section includes the details of burn actions and graze actions. Burn data include fields that classify the timing of the burn relative to the seasonal window according to observed unit-specific phenology ("Phenology") and window dates ("Window"). Graze actions include the timing of the start and end of the graze relative to the respective seasonal window as classified by observed unitspecific phenology and by window dates. Additionally, several calculated fields are provided that are used along with the window dates to classify the graze as occurring within or outside of the window.

If a special treatment has been entered for the unit, the "View Special Treatment" button, outlined in yellow, will appear. If no special treatment has been entered for the unit, the button will not appear.

Unit Information								
Year: Grassland: Tall Gras	2011 Complex: s Prairie Org:	CLAY COUN	DETROIT LAKES WMD	Unit: Acres:	Hoyken	WPA North 46.019		
Management Action Info	rmation			00				
Management Action into	mation			011				
Management Number:	1	of 1	Fall Start Date:		Spring Start Date	5/25/20	11	
Management Type:	Burn		Fall End Date:		Spring End Date	6/9/20	11	
Start Date:	5/15/2011		Windo	ow Length:	15			
End Date:	5/15/2011			ow congoit.	15			
Proportion of Unit Treate	:d: 1							
Burn Data			Graze Data					
			Phenology start:		Windo	v start:		
Phenology:	BEFORE		Phenology end:		Windo	v end:		
Fire Type:	Prescribed		Graze Length:		Graze \	/indow Length		
Burn Cover:	90-100		Utilize:		END:			
Burn Intensity Moder	ately Burned		No. of Animals		BEFORE			
			Animal Type		AETED:			
Window:	BEFORE		Annar type		ALLES.			
			Stocking Rate:		COVER			
Comments:								
Classifications					Coordin	ator Tasks 🛑		
Phenology Classified:	DEFOLI	ATE			Check	nere to mark r	ecord as reviewed	
Window Classified:	DEFOLI	ATE	sification for Action	DE	EFOLIATE	ed Action:		
Pheno=Window:	т	Clas: rue	sification for Unit:	DE	EFOLIATE		No Reclassification	•
					L		Rest	
o			View Special Treatm	nents		l	NOTENEAN ACTION	
coordinator Comments								

Figure 7: Tall Grass Flagged Actions Screen with View Special Treatment Button

🔳 fr	🗄 frmSpecialTreatment 👝 🖂 🏹									
	Special T	reatments								
	Complex:									
	Unit:	Hoykens WPA North								
	Description			Start Date	End Date	Acres Treated				
	woody vegetation re	emoval/chemical treatment of stumps		1/10/2011	1/14/2011	20				
Peroro	l li d 1 of 1	No Filter Search								

When the coordinator clicks the button, the special treatment window pops up:

When the coordinator is finished reviewing the special treatment he/she closes the popup screen by clicking on the "x" in the upper right hand corner.

Pop-up descriptions are available for the following fields: Window Length, Phenology, Window, Phenology Start, Phenology End, Window Start, Window End, Graze Window Length, END, BEFORE, AFTER, COVER, Phenology Classified, Window Classified, Pheno=Window, Classification for Action, and Classification for Unit.

Clicking inside the text box for each field causes a description of the field to pop up:



These descriptions are also provided in Appendix A.

The bottom portion of the screen shows the classification of the action based on unit-specific phenology and the classification of the action based on window data. Lastly, the classifications for the action and for the unit are listed. The rules used to make these classifications are detailed in Appendices B, C, and D.

At the bottom right, the coordinator tasks are highlighted by a red box. As with the Mixed Grass records, the coordinator must verify that every flagged record has been reviewed by checking the box and must select a reclassification action from the dropdown list (No Reclassification, Rest, or Non-NPAM Action) before proceeding. In addition, the coordinator has the option of entering any notes in the Coordinator Comments section. Once all the records are reviewed, the form can be closed by clicking the "x" in the upper right hand corner.

If Pheno=Window is "False", the record will be flagged to indicate that the unit-specific phenology and the window data are not in agreement. Given the inconsistency, the coordinator may wish to review the observer supplied phenological response(s) and the window dates, in conjunction with the management action date(s), and consider the quality of each set of data (i.e., unit-specific phenology versus window data). When the Pheno=Window field is false, the Reclassified Action dropdown list is augmented to include the Window Classified action in addition to the same three options as other flagged records (i.e., No Reclassification, Rest, Non-NPAM Action). The classification rules for the action (Appendix B) default to the Phenology Classified classification over the Window Classified appropriate, the coordinator may override the default classification by reclassification by selecting the Window Classified classification from the Phenology Classified classification from the dropdown list. The other options (i.e., No Reclassification, Rest, and Non-NPAM Action) may also be selected.

Unit Information					
Year:	2011 Complex:	SAND LAKE COMPLE	EX Unit:	Sanderson	
Grassland: Tall Grass	Prairie Org:	SPINK COUNTY WP	PA Acres:	124.914	
		Martin dans to farmer			
Management Action Inforr	nation	window informa	stion		
Management Number:	1 of	1 Fall Start Date:		Spring Start Date: 5/30/2011	
Management Type:	Burn	Fall End Date:		Spring End Date: 6/6/2011	
Start Date:	8/17/2011	Win	adow Longth:	7	
End Date:	8/17/2011	VV III	idow Length.	/	
Proportion of Unit Treated	1				
Burn Data		Graze Data			
		Phenology start:		Window start:	
Phenology:	DURING	Phenology end:		Window end:	
Fire Type:	Prescribed	Graze Length:		Graze Window Length:	
Burn Cover:	80-90	Utilizer		END:	
Burn Intensity Modera	tely Burned	ounze.		END.	
		No. of Animals		BEFORE:	
Window:	AFTER	Animal Type		AFTER:	
		Stocking Rate:		COVER:	
Comments: Spravor	Milestone for Canad	a Thistle and Wormwood S	Sage Control		
sprayed	i willestolle for callada	a mistie and wormwood s	lage control		
Classifications				Coordinator Tarks	
Classifications				Coordinator Tasks	a roviourod
Phenology Classified:	BURN W/IN WINDOW	<b>Classification for Action</b>	BURN W/IN WIND	OW Check here to mark record	as reviewed
Window Classified:	DEFOLIATE	Classification for Unit:	BURN W/IN WIND	OW Reclassified Action:	
Pheno=Window:	False			No Rest	eclassification
		View Special Treat	tments	Defol	liate
Coordinator Comments 🗕		1		Non-I	NPAIN ACTION

If a burn or a graze action on a tall grass unit occurs during the fall (i.e., between 1 September and 31 December), a default comment will automatically be inserted in the comments section that reads, "[This is a fall treatment. Please do not delete this automatically inserted comment. – Cami Dixon]" and the record will be flagged for coordinator review (see example below). The comments field, along with the Start Date field, will be highlighted to call the coordinator's attention to the reason the record is flagged. Fall tall grass treatments are flagged because according to the current rules regarding tall grass cool-season windows, the fall window is undefined and thus fall treatments cannot be reliably classified as occurring within or outside of the window. For this reason, when such records are reviewed during Step 2b or 2c of the coordinator processing steps, the coordinator should select "Non-NPAM Action" from the 'Reclassified Action' dropdown list. In doing so, the 'Reclassified Treatment for Unit' will become "Unclassifiable", which will be reviewed and acted on in Step 3.

Unit Information				
Year:	2011 Complex:	W	AUBAY NWR COMPLEX Unit:	Roe E
Grassland: Tall Grass Pr	rairie Org:	COD	INGTON COUNTY WPA Acres:	60.812
Management Action Informa	ation		Window Information	
Management Number:	1 of	2	Fall Start Date:	Spring Start Date: 5/28/2011
Management Type:	Burn		Fall End Date:	Spring End Date: 6/6/2011
Start Date:	10/19/2010			
End Date:	10/19/2010		Window Length	n:
Proportion of Unit Treated:	1			
Burn Data			Graze Data	
			Phenology start:	Window start:
Phenology:	AFTER		Phenology end:	Window end:
Fire Type: P	rescribed		Graze Length:	Graze Window Length:
Burn Cover:	90-100		Utilize:	END:
Burn Intensity Moderate	ly Burned		No. of Animals	BEFORE:
			Animal Type	AFTER:
Window: U	NKNOWN		Stocking Rate:	COVER
				COVER.
Comments: [This is a	fall treatment. Ple	ase do no	ot delete this automatically i	inserted comment Cami Dixon]
Classifications				Coordinator Tasks
Phenology Classified:	DEFOLIATE	Classif	ication for Action	DEFOLIATE Check here to mark record as reviewed
Window Classified:	NOT POSSIBLE	Classi	fication for Unit: UN	CLASSIFLABLE Reclassified Action:
Pheno=Window:	N/A			No Reclassification
				Non-NPAM Action
Coordinator Comments				
Fall treatment, therefore	Non-NPAM Action			

#### Step c:

To review the unclassifiable tall grass actions, the coordinator clicks "Review and Modify Unclassifiable Actions" under the Tall Grass Units section:

Year:					
	2011 Complex:	TEWAUKON WMI	) Unit:	Krause	
Grassland: Tall Grass F	Prairie Org:	SARGENT COUNTY WP	A Acres:	96.887	
Aanagement Action Inform	nation	Window Informa	tion		
/anagement Number:	1 of	1 Fall Start Date:	Spring St	art Date: 5/25/2011	
/anagement Type:	Graze	Fall End Date:	Spring F	nd Date: 5/20/2011	
tart Date:	9/30/2010		oping c	0,5/2011	
nd Date:	10/30/2010	Win	dow Length:		
roportion of Unit Treated:	1				
urn Data		Graze Data			
		Phenology start:		Window start:	
henology:		Phenology end:		Window end:	
ire Type:		Graze Length:		Graze Window Length:	
urn Cover:		Utilize:	Slight (1 to 20%)	END:	
urn Intensity:		No. of Animals:	100	BEFORE-	
		Animal Type:	Cow/Calf pair	AFTER	
Vindow:		Stocking Rate:	1.03	COVER:	
Comments: Flooding	g caused fence issue	es then couldn't keep cows	where they were suppose	ed to be.	
lassifications				Coordinator Tasks	
henology Classified:		Classification for Action	UNCLASSIFIABLE		as reviewed
Vindow Classified:	NOT POSSIBL	E Classification for Unit:	UNCLASSIFIABLE	Reclassified Action:	
DODOTIN/UD COUNT	N//	A Flaggeu.	True		•

Figure 8: Tall Grass Unclassifiable (and Flagged) Actions Screen

The information on the screen is identical to the Flagged tall grass actions screen with the exception of two things: 1) the Classification for Action field is highlighted to show that it is "Unclassifiable"; and 2) the coordinator tasks box is slightly different (as detailed below). This form is used for tall grass actions that are unclassifiable, as well as tall grass actions that are both flagged AND unclassifiable. If the action is only unclassifiable, the coordinator tasks box will simply contain a dropdown box to reclassify the action:



The coordinator can choose to keep the action as unclassifiable or to reclassify the action as one of the four NPAM classified actions. If "Remain Unclassifiable" is selected, the Classification for Unit will become "Unclassifiable", which will be revealed in Step 3 of the coordinator processing steps. During Step 3, the coordinator will have the opportunity to review the unit and determine if it will remain "Unclassifiable" or be reclassified. The details of reclassifying unit-level actions are discussed under Step 3.

If an action is both flagged AND unclassifiable, in addition to the dropdown box to reclassify the action, the coordinator tasks box will have a check box to mark the action as reviewed:



Additionally, the dropdown list for flagged AND unclassifiable actions is augmented from the unclassified-only list to include the reclassification option "Non-NPAM Action". As noted earlier for flagged-only actions, the "Non-NPAM Action" selection is available if the coordinator, once considering the flagged fields, determines that the action does not conform to the NPAM management action guidelines. Actions reclassified as "Non-NPAM Actions" will result in the Classification for Unit becoming "Unclassifiable", which will be revealed and dealt with in Step 3 of the coordinator processing steps.

The record must be marked as reviewed and a selection from the dropdown box must be made before the coordinator can proceed to the next processing step. Once all records have been completed, the coordinator can close the form by clicking the "x" in the upper right hand corner.

#### Step d:

When all of the records have been reviewed and a selection has been made from the Reclassified Treatment per Action dropdown list, the coordinator will click on the "Submit Updated Classifications" button.

If there remain records that have not been marked as reviewed or not assigned a reclassified action, the coordinator will get an alert. The number of records that need to be addressed will be listed in the alert. The coordinator will not be able to proceed to Step 3 until all items are addressed.

Microsoft A	Access
8	There are 13 flagged Mixed Grass records that have not been reviewed, 5 flagged Tall Grass records that have not been reviewed, 13 flagged Mixed Grass records that have not been reclassified, and 5 flagged Tall Grass records that have not been reclassified. In order to proceed with the updating process, you must reclassify and mark all flagged records as reviewed.
	ОК

If the coordinator has chosen to select that any tall grass actions "Remain Unclassifiable", an alert will appear:

Microsoft Access	X
There are 1 unclassifiable actions that have been I reclassify these actions, the asssociated Unit will b to proceed without reclassifying these records?	eft unclassifable. If you do not e 'Unclassifiable'. Do you wish
	Yes No

The coordinator can select "No" and return to modify the assigned reclassification of the unclassified actions, or can select "Yes" to leave the actions as unclassified and continue with submittal of the records.

Once the classifications have been submitted, the coordinator will receive an alert and Step 3 will become enabled.



Coordinator Actions		_ 0 🔀
Processing Actions Summaries	Summary Files	
Management Year: 2011	v	
Step 1: Identify Units with Unclassifiable Actions	To begin the updating process, click this button to generate a list of actions that require coordinator input.	
Step 2: Review and Modify Actions Marked as Unclassifiable or Flagged	Next, review all flagged actions and reclassify actions as necessary.	
Step 3: Review and Modify Units Marked as Unclassifiable	Review and reclassify any units that are marked as unclassifiable. If any units remain unclassifiable, they will be omitted from the analysis.	
Step 4: Create Tables to Be Sent to Updating Program	This step creates the necessary tables that will be used by the SAS program. You will be alerted when the tables are ready to be used in the SAS program	

#### Step 3:

When the classifications are submitted from Step 2, any reclassifications of individual actions may result in a reclassification of the action for the unit. In certain instances the unit will be unclassifiable (see Appendix D for unit classification rules). In Step 3, the coordinator must review the unclassifiable units. When the coordinator clicks on the Step 3 button, the following window appears:



Figure 9: Review Unclassifiable Units Screen

In the upper portion of the form, there is a button to review and modify unclassifiable mixed grass units. A similar button appears in the lower half of the form for tall grass units.

#### Step a:

When the coordinator clicks the mixed grass button, the following screen will appear for mixed grass records that have the Unit Level Classification 'Reclassified Treatment for Unit' classified as "Unclassifiable":

nit Info	ormation	and brandge						
Grassl	and Mixed Grass Prairie			Org	MCHENRY COL	UNTY WPA		
Comple	ex SOURIS RIVER BASIN C	OMPLEX		Unit	Keller Unit 1			
Year	2011							
lanag	amont Actions			_				
) anage	Management Action Informat	tion	Burn Data			Graze Data		
	Management Number:	1 or 3	Fire type:			Graze Length:	/	
	wanagement Type:	Graze	Burn Cover:			Utilize:	Slight (1 to 20%)	
	End Date:	6/8/2011	burn intensity:			NO. OF ANIMAIS:	20	
	chu Date.	6/15/2011				AnimalType:	Cow/Calf pair	
	Proportion of onit freated.	1				Stocking Rate:	0.2	
	Action Level Classifications – Classification for Action:		GRAZE Re	classifie	d Action : NO	RECLASSIFICATION		
	Action Level Classifications – Classification for Action: Coordinator Comments		GRAZE Rea	classifie	d Action : NO	RECLASSIFICATION		
	Action Level Classifications – Classification for Action: Coordinator Comments		GRAZE Ret	classifie	d Action : NO	RECLASSIFICATION		
Record:	Action Level Classifications – Classification for Action: Coordinator Comments	≪ No Filter Search	GRAZE Ree	classifie	d Action : NO I	RECLASSIFICATION		
Record:	Action Level Classifications – Classification for Action: Coordinator Comments	K No Filter Search	GRAZE Rea		d Action : NO I	RECLASSIFICATION		
Record: Clas	Action Level Classifications - Classification for Action: Coordinator Comments : H < 1 of 3 > H >= 1 : Level Classifications scification for Unit:	K No Filter Search GRAZE	GRAZE Rea		d Action : NO I	RECLASSIFICATION		
Record: Clas Recl	Action Level Classifications – Classification for Action: Coordinator Comments : H < 1 of 3 > H >= 1 : Level Classifications ssification for Unit: lassified Treatment for Unit:	≪ No Filter Search GRAZE UNCLASSIFIABLE	GRAZE Rea		d Action : NO I	RECLASSIFICATION		
Record: Class Recl	Action Level Classifications – Classification for Action: Coordinator Comments : H < 1 of 3 > H >> 1 : Level Classifications sistification for Unit: lassified Treatment for Unit: rdinator Comments	≪ No Filter Search GRAZE UNCLASSIFIABLE	GRAZE Rea		d Action : NO I	RECLASSIFICATION		
Record: Class Recl	Action Level Classifications – Classification for Action: Coordinator Comments : H < 1 of 3 > H >= 1 : Level Classifications ssification for Unit: lassified Treatment for Unit: rdinator Comments	≪ No Filter Search GRAZE UNCLASSIFIABLE	GRAZE Rea		d Action : NO I	RECLASSIFICATION		

Figure 10: Reclassify Mixed Grass Units Screen

The records are ordered alphabetically by Complex, Org, Unit, and Management Number. The top portion of the screen includes the basic unit information. The middle portion of the screen contains the records for each individual management action that was carried out on the unit within the given management year. The bottom portion of the screen shows the classification of the management action at the unit level, as well as the coordinator task and Coordinator Comments box. The 'Reclassified Treatment for Unit' field will always be highlighted for records that appear in Step 3 to reflect that the unit is unclassifiable.

The Management Action Information section in the middle portion of the screen indicates how many management actions were entered for the unit for the given management year:

Management Action Informa	tion		
Management Number:	1	of	3
Management Type:	Graze		
Start Date:	6/8/2011		
End Date:	6/15/2011		
Proportion of Unit Treated:	1		

The coordinator can review the individual management actions carried out on the unit by using the record selector buttons located in the middle portion of the screen.

Management Action Informa	tion	Burn Data	Graze Data	
Management Number:	1 of 3	Fire Type:	Graze Length:	7
Management Type:	Graze	Burn Cover:	Utilize:	Slight (1 to 20%)
Start Date:	6/8/2011	Burn Intensity:	No. of Animals:	20
End Date:	6/15/2011		AnimalType:	Cow/Calf pair
Proportion of Unit Treated:	1		Stocking Rate:	0.2
Action Level Classifications - Classification for Action: Coordinator Comments		GRAZE Reclassified Acti	on : NO RECLASSIFICATION	
Action Level Classifications - Classification for Action: Coordinator Comments		GRAZE Reclassified Acti	ON : NO RECLASSIFICATION	
Action Level Classifications - Classification for Action: Coordinator Comments	No Filter Search	GRAZE Reclassified Acti	on : NO RECLASSIFICATION	
Action Level Classifications - Classification for Action: Coordinator Comments M < 1 of 3 + H > Tever classifications sification for Unit:	K No Filter Search	GRAZE Reclassified Acti	on : NO RECLASSIFICATION	

The coordinator should review each individual action before making a final determination of the classification of the management action for the unit as a whole.

Management Number: Management Type: Start Date: End Date: Proportion of Unit Treated:	2 of 3 Graze 7/6/2011 7/9/2011 ed: 1	Fire Type: Burn Cover: Burn Intensi	:	Gi	raze Length:	
Management Type: Start Date: End Date: Proportion of Unit Treated:	Graze 7/6/2011 7/9/2011 ed: 1	Burn Cover: Burn Intensi	:iity:	U		
Start Date: End Date: Proportion of Unit Treated:	7/6/2011 7/9/2011 ed: 1	Burn Intensi	sity:		tilize:	Slight (1 to 20
End Date: Proportion of Unit Treated:	7/9/2011 ed: 1			N	o. of Animals:	
Proportion of Unit Treated:	ed: 1			Ar	nimalType:	Cow/Calf pa
Comments:				St	ocking Rate:	(
	·					
	s					
rd: 14 4 2 of 3 + H 50	K No Filter Search			der Tark		
rd: 14 4 2 of 3 + 11 - 11 - 11 - 11 - 11 - 11 - 11 -	K No Filter Search		Coordina	ttor Task	atment for Unit	

Management Number:       3 of 3         Management Type:       Graze         Start Date:       8/2/2011         End Date:       8/19/2011         Proportion of Unit Treated:       1         Comments:       Graze         Action Level Classifications         Classification for Action:       GRAZE         Reclassified Action :       NO RECLASSIFICATION	Management Action Informatio	n	_Burn Data	Graze Data	
Management Type:       Graze         Burn Cover:       Utilize:         Start Date:       8/2/2011         End Date:       8/19/2011         Proportion of Unit Treated:       1         Comments:       Stocking Rate:         -Action Level Classifications         Classification for Action:       GRAZE         Reclassified Action :       NO RECLASSIFICATION	Management Number:	3 of 3	Fire Type:	Graze Length:	:
Start Date:       8/2/2011         End Date:       8/19/2011         Proportion of Unit Treated:       1         Stocking Rate:       Cow/Calf particular in the stocking Rate:         Comments:       Stocking Rate:         Classifications       GRAZE         Coordinator Comments       GRAZE	Management Type:	Graze	Burn Cover:	Utilize:	Slight (1 to 20
End Date:       8/19/2011         Proportion of Unit Treated:       1         Stocking Rate:       Cow/Calf pi Stocking Rate:         Comments:         Action Level Classifications         Classification for Action:         GRAZE       Reclassified Action :         NO RECLASSIFICATION	Start Date:	8/2/2011	Burn Intensity:	No. of Animals:	
Proportion of Unit Treated: 1 Stocking Rate: C Comments: Action Level Classifications Classification for Action: GRAZE Reclassified Action : NO RECLASSIFICATION Coordinator Comments	End Date:	8/19/2011		AnimalType:	Cow/Calf pa
Comments:  Action Level Classifications  Classification for Action:  GRAZE  Reclassified Action:  NO RECLASSIFICATION  Coordinator Comments	Proportion of Unit Treated:	1		Stocking Rate:	C
	Action Level Classifications				
	Action Level Classifications Classification for Action: Coordinator Comments	No Filter Search	GRAZE Reclassified Ac	tion : NO RECLASSIFICATION	
t Level Classifications Coordinator Task	Action Level Classifications Classification for Action: Coordinator Comments	No Filter Search	GRAZE Reclassified Ac	tion : NO RECLASSIFICATION	
t Level Classifications Coordinator Task ssification for Unit: GRAZE Reclassified Final Treatment for Unit	Action Level Classifications Classification for Action: Coordinator Comments	No Filter Search	GRAZE Reclassified Ac	dinator Task	

In addition to the field 'Reclassified Treatment for Unit' being highlighted, fields that contributed to the unit being unclassifiable are also highlighted. In the mixed grass example above, the field for 'Reclassified Action' is highlighted for management action 2 of 3 to draw the coordinator's attention to the cause of the unclassifiable unit; one of the three actions implemented on the unit had been reclassified from a Graze to a Rest during Step 2 of the coordinator processing steps. Based on mixed grass unit classification rules (Appendix D), if a Rest overlaps with other active treatments on a unit, the unit is considered unclassifiable.

Once the coordinator has reviewed all of the individual actions for the unclassifiable unit, she/he will select an option from the 'Reclassified Final Treatment for Unit' dropdown list on the bottom right. This list includes the option for the unit to remain unclassifiable or to be reclassified as one of the four NPAM mixed grass actions. Each unclassifiable unit must have a 'Reclassified Final Treatment for Unit' selected.

C	oordinator Task	
	Reclassified Final Treatment for Un	it
	*	
	Remain Unclassifiable	
	Rest	
	Graze	
	Burn	
	Burn/Graze	

If more than one unit is unclassifiable, the record navigation buttons allow the coordinator to scroll to the next unit:

Unit Level Classifications		Coordinator Task	
Classification for Unit:	GRAZE	Reclassified Final Treatment for Unit	
Reclassified Treatment for Unit:	UNCLASSIFIABLE	Graze	
Of three grazes on this unit, one Overall, the three actions amou	e was reclassified as a Rest due to int to a Graze for the unit.	its short length, while the other two remain classified as	Grazes.

Once all unclassified units have been reviewed and a reclassification selected, the coordinator uses the "x" in the upper right hand corner to close the screen.

#### Step b:

When the coordinator clicks the tall grass button, the following screen will appear for tall grass records that have the Unit Level Classification 'Reclassified Treatment for Unit' classified as "Unclassifiable":

-	(m. m. m		12	per element i ser estre and a ser estre a		
Grassland	Tall Grass Prairie		Org	CODINGTON COUNTY WPA		
Complex	WAUBAY NWR COMPLEX		Unit	Roe E		
Year	2011					
inagement Actions						
Management Action Inf	ormation	Window Information	n			
Management Number:	1 of 2	Fall Start Date:	Sp	ring Start Date. 5/25/2011	Unit Level Classifications	
Management Type:	Burn	Fall End Date:	Só	ring End Date: 6/7/2011	Classification for Unit:	UNCLASSIFIABLE
Start Date:	10/19/2010	ANTI-			Reclassified Treatment for U	Init: UNCLASSIFIABLE
End Date:	10/19/2010	window	w Lengsri.			
Proportion of Unit Trea	ted. 1				Coordinator Task	
Burn Data		Graze Data			Reclassified Final Treatmen	t for Unit
Phenonology:	AFTER	Phenology start:		Windowstart		×
Fire Type:	Prescribed	Phenology end:		Window end:		
Burn Cover:	90-100	Graze Length:		Graze Window Length:	Coordinator Comments:	
Burn Intensity: Mode	erately Burned	Utilize:		END:		
		NO. OT ANIMAIS:		AFTED:		
Window:	UNKNOWN	Stocking Date:		AFTER:		
		Stocking Kate:		COVER		
Comments: [This	is a fall treatment. Please do r	not delete this automat	ically inserted cor	mment Cami Dixon]		
Action Level Classification	ons					
Phenology Classified:	DEFOLIATE Pheno:W	/indow:	N/A	Reclassified Action NON-NPAM ACTION		
Window Classified:	NOT POSSIBLE Classific	ation for Action	DEFOLIATE			
-Coordinator Comments	,					
-Coordinator Comments	·					
Coordinator Comments < 2 of 3 ▶ ► ► > > > > > > > > > > > > > > > > >	& No Filter Search					- U
Coordinator Comments          < 2 of 3       > N >>         ofly Tall Grass Units       Tall Grass         Unit Information       Units	6. No Filter Starch 4	ıt				
Coordinator Comments     (2 of 3 ) N N N N N N N N N N N N N N N N N N	6, No Filter Starch 4 Prairie Managemei Tall Grass Prairie	nt	Org	CODINGTON COUNTY WPA		- B.
Coordinator Comments     Solution     Control of the second	6: Ho Filter Search 4 Prairie Managemei Tall Grass Prairie Waubay NWR COMPLEX	nt	Org	CODINGTON COUNTY WPA Roe E		
Coordinator Comments     Second	Ko Filter Search     A	nt	Org	CODINGTON COUNTY WPA Roe E		
Coordinator Comments	Ko Filter Search     A	nt	Org Unit	CODINGTON COUNTY WPA Roe E		- B.
Coordinator Comments     Section 2 of 3 > > > > > > > > > > > > > > > > > >	State Filter Search	nt	Org Unit	CODINGTON COUNTY WPA Roe E		
Coordinator Comments     2 or 3      Hold Comments     Tall Grass Units     Tall Grass     Tall Grass     Tall Grass     Complex     Year     Imangement Actions	Schoffler Scarch Prairie Managemen Tall Grass Prairie WAUBAY NWR COMPLEX 2011 formation	1t Window Information	Org Unit	CODINGTON COUNTY WPA Role E	Unit Level Classifications	
Coordinator Comments  Coordinator Comments  Complex  Year  Innagement Actions  Management Type	Contraction	It Window Information Fall Start Date:	Org Unit Sprin	CODINGTON COUNTY WPA Roe E Start Date: 5/25/2011	Unit Level Classifications	
Coordinator Comments     Control of the second	Content of the filter search  Conte	It Window Information Fall Start Date: Fell End Date:	Org Unit Sprin Sprin	CODINGTON COUNTY WPA Roc E \$15art Date: \$/25/2011 \$16art Date: 6/7/2011	Unit Level Classifications Classification for Unit:	
Coordinator Comments     (2 of 3 >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	Contemporation  Contemporatio	It Window Information Pail Start Date: Pell End Date: Window U	Org Unit Serin Serin	CODINGTON COUNTY WPA Roe E \$15ant Date: 5/25/2011 \$2 End Date: 6/7/2011	Unit Level Classifications Classification for Unit: Reclassified Treatment for Unit:	UNCLASSIFIABLE UNCLASSIFIABLE
Coordinator Comments     Support State Comments     Tall Grass     Units     Tall Grass     Unit Information     Grassland     Complex     Year     Ianagement Action Inf     Management Action Inf	Ko Filter Search      A	1t Window Information Pall Start Date: Fell End Date: Window C	Org Unit Sprin Sprin	CODINGTON COUNTY WPA           Roe E           sg Start Date:           5/25/2011           6/7/2011	Unit Level Classifications Classification for Unit: Reclassified Treatment for Unit: Coordinator Task	UNCLASSIFIABLE UNCLASSIFIABLE
Coordinator Comments     (2 or 3 ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	Search  California  Californi	nt Window Information Pall Start Date: Pell End Date: Window L	Org Unit Sprin Sprin Sprin	CODINGTON COUNTY WPA Roe E V Start Date: 5/25/2011 V End Date: 6/7/2011	Unit Level Classifications Classification for Unit: Reclassified Treatment for Unit: Reclassified Final Treatment for I	UNCLASSIFIABLE UNCLASSIFIABLE
Coordinator Comments     (2 of 3 ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	Schoffler Scarch €       Prairie Managemei       Tall Grass Prairie       WAUBAY NWR COMPLEX       2011       formation       2       6/12/2011       6/12/2011       1	1t Window Information Fall Start Date: Fell End Date: Window U Graze Data Piccology start	Org Unit Sprin Sprin	CODINGTON COUNTY WPA Roe E Start Date: 5/15/2011 I Find Date: 6/7/2011	Unit Level Classifications Classification for Unit: Reclassified Treatment for Unit: Coordinator Task Reclassified Final Treatment for I	UNCLASSIFIABLE UNCLASSIFIABLE
Coordinator Comments      Z or 3      X > X > X > X      All Grass Units      Tall Grass      Tall Gras      Tall Grass      Tall Grass      Tall Grass      Tall Grass	€ Ho Filter Scarch Prairie Managemen Tall Grass Prairie WAUBAY NWR COMPLEX 2011 formation 2 of 2 Graze 5/24/2011 6/12/2011 1 ted: 1	1t Window Information Fall Start Date: Fall Start Date: Fall Cod Cate: Window L Of raze Data Phenology start: Phenology end:	Org Unit Serin Serin Serin Serin Ungth:	CODINGTON COUNTY WPA Roe E y Itan Date: 5/25/2011 y Find Date: 6/7/2011 RE Window stort: Defore KG Window end: After	Unit Level Classifications Classification for Unit: Reclassified Treatment for Unit: Reclassified Final Treatment for I	UNCLASSIFIABLE UNCLASSIFIABLE
Coordinator Comments     Jord Grass Units     Tall Grass     Unit Information     Grassland     Complex     Year     Management Action Inf     Management Action     Durn Data     Preportion of Unit Tree      Burn Data     Preconology:     Fire Type:     Durn Cover:	Ko Filter Search	It Window Information Fall Start Date: Fell Cod Date: Window C Graze Data Phenology end: Graze Length:	Org	CODINGTON COUNTY WPA Roe E sg Start Date: 5/25/2011 sg End Date: 6/7/2011 Sg End Date: 6/7/2011 Sg Window stort: Defore Sg Window stort: Defore Sg Window stort: Defore Sg Window Length 12	Unit Level Classifications Classification for Unit: Reclassified Treatment for Unit: Reclassified Final Treatment for I Reclassified Final Treatment for I	UNCLASSIFIABLE UNCLASSIFIABLE
Coordinator Comments  ( 2 of 3 > >>> >>>>>>>>>>>>>>>>>>>>>>>>>>>>	Ke Filter Search	It Window Information Fall Start Date: Fell End Date: Window L Graze Data Phenology start Phenology start Utilize:	Org Unit Serin Serin OURIN 2 Full (41 to 607	CODINGTON COUNTY WPA Roe E g Start Date: 5/25/2011 g Snd Date: 6/7/2011 RC Window start: Defore 46 Window cond: After 15 Graze Window Langth: 13 Nij SND: 5	Unit Level Classifications Classification for Unit: Reclassified Treatment for Unit: Reclassified Final Treatment for I Coordinator Comments:	UNCLASSIFIABLE UNCLASSIFIABLE
Coordinator Comments	Ko Filter Search 4  Prairie Managemen Tall Grass Prairie WAUBAY NWR COMPLEX 2011  formation      C	11 Window Information Fall Start Date: Fell End Date: Window E Phenology and: Crase Length: Utilize: No. of Animals:	Org Unit Unit Sprin Sprin OURIN S Full (41 to 601 S	CODINGTON COUNTY WPA Roe E sy start Date: 5/25/2011 sy End Date: 6/7/2011 Sy Unindow start: Defore Sy Window end: After S Graze Window Langth: 13 Sy Etco: -3 St Berose: 1	Unit Level Classifications Classification for Unit: Reclassified Treatment for Unit: Reclassified Final Treatment for I Coordinator Comments:	UNCLASSIFIABLE UNCLASSIFIABLE
Coordinator Comments	§ No Filter Search	1t Window Information Pall Start Date: Pell End Date: Phenology and: Crase Longh: Crase Longh: C	Org Unit Sprin Spr	CODINGTON COUNTY WPA Roe E Stant Date: 5/25/2011 g Ind Date: 6/7/2011 Stant Date: 6/7/2011 Stant Date: 1/2011 Stant Date	Unit Level Classifications Classification for Unit: Reclassified Treatment for Unit: Reclassified Final Treatment for I Coordinator Comments:	UNCLASSIFIABLE UNCLASSIFIABLE
Coordinator Comments	Ko Filter Search     A	11 Window Information All Start Date: Pell End Date: Plenology stort Phenology end: Grase Length: Window L Utilize: No. of Animals: Animal Type: Stocking Rate:	Org Unit Sprin Sprin Sprin Courtors Dukin S Full (41 to 600 S Cow/Calf pa	CODINGTON COUNTY WPA Roe E Start Date: 5/25/2011 Start Date: 6/7/2011 Start Date: 6/7/2011 Start Date: 0/7/2011 Start Date: 0/	Unit Level Classifications Classification for Unit: Reclassified Treatment for Unit: Reclassified Final Treatment for I Coordinator Comments:	UNCLASSIPIABLE UNCLASSIPIABLE UNCLASSIPIABLE
Coordinator Comments	Ko Filter Search 4  Prairie Managemen Tall Grass Prairie WAUBAY NWR COMPLEX 2011  formation      C of 2      Grase     S/24/2011      G/12/2011      ted:      1	Nt           Window Information           Fall Start Date:           Fall Start Date:           Graze Data           Phenology and:           Oraze Length:           Utilize:           No. of Animals:           Animal Type:           Stocking Rate:	Org Unit Unit Sprin Sprin OURIN S Full (41 to 601 8 Cow/Calf pa	CODINGTON COUNTY WPA Roe E  y start Date: 5/25/2011  y End Date: 6/7/2011   K  Window rdd: After  G Window end: After  G Graze Window end: 13  B  Ch2: -5  Ch2: -	Unit Level Classifications Classification for Unit: Reclassified Treatment for Unit: Reclassified Final Treatment for I Coordinator Comments:	UNCLASSIFIABLE UNCLASSIFIABLE
Coordinator Comments	Ko Filter Search	11 Window Information Fall Start Date: Fell End Date: Window C Orace Data Phenology end: Grase Length: Utilize: No. of Animals: Animal Type: Stocking Rate:	Org Unit Sprin Sprin DURIN Full (41 to 601 S Cow/Calf pa	CODINGTON COUNTY WPA Roe E  sg start Date: 5/25/2011 sg End Date: 6/7/2011 sg End Date: 0efore SG Window end: After SG Window end: 13 SG fraze Window Length: 13 SG BCPORE: 1 SG BCFORE: 1 SG COVER:	Unit Level Classifications Classification for Unit: Reclassified Treatment for Unit: Reclassified Final Treatment for I Coordinator Comments:	UNCLASSIFIABLE UNCLASSIFIABLE
Coordinator Comments		1t Window Information Pall Start Date: Pell End Date: Plenology adert Phenology adert Phenology adert Phenology adert Phenology adert Phenology adert Phenology adert Phenology adert Phenology adert Stocking Rate: Stocking Ra	Org Unit Sprin Sprin Sprin Courtor UNIN Sprin Sp	CODINGTON COUNTY WPA Roe E start Date: 5/25/2011 start Date: 6/7/2011 Start Date: 0/2011 Start Date:	Unit Level Classifications Classification for Unit: Reclassified Treatment for Unit: Reclassified Final Treatment for Coordinator Comments:	UNCLASSIPIABLE UNCLASSIPIABLE
Coordinator Comments	Ko Filter Search      Construct Search	11 Window Information All Start Date: Pell End Date: Piccology start Phenology end: Graze Length: Utilize: Animal Type: Stocking Rate: Stocking Rate	Org Unit Unit Sprin Sprin Sprin Sprin Sprin Sprin URIN Sprin	CODINGTON COUNTY WPA Roe E Start Date: 5/25/2011 Start Date: 5/25	Unit Level Classifications Classification for Unit: Reclassified Treatment for Unit: Reclassified Final Treatment for Coordinator Comments:	UNCLASSIFIABLE UNCLASSIFIABLE

Figure 11: Reclassify Tall Grass Units Screen

The records are ordered alphabetically by Complex, Org, Unit, and Management Number. The screen is equivalent to the mixed grass screen with the exception of the layout. The unitlevel classifications and coordinator tasks are to the right of the management action data. As

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with the mixed grass screen, the 'Reclassified Treatment for Unit' field is highlighted to reflect that the unit is unclassifiable (and hence the reason the record is being reviewed in Step 3). Additionally, fields that contributed to the unit being unclassifiable are also highlighted. In the tall grass example above (figure 11), the field for 'Classification for Unit' is highlighted to draw the coordinator's attention to the cause of the unclassifiable unit; based on tall grass unit classification rules (Appendix D), the individual actions carried out on this unit resulted in an unclassifiable unit-level action. The management action portion of the screen includes the individual actions carried out on the unit within the given management year. Closer examination of the example (figure 11), reveals that two actions were carried out on the unit during the management year: a burn and a graze. According to tall grass rules, the burn has a 'Classification for Action' of Defoliate, while the graze has a 'Classification for Action' of Graze within window. These two individual actions combined on a single unit result in an unclassifiable unit-level action (see Appendix D). 'Classification for Unit' shows how the unit was classified based on the 'Classification for Action'(s). Note, too, that the 'Reclassified Action' field is highlighted; this notifies the coordinator that it is the immediate reason that the 'Reclassified Treatment for Unit' is classified as unclassifiable. When this unit was reviewed during Step 2c of the Coordinator Processing steps, the burn action was re-classified by the coordinator to a Non-NPAM Action because it was a fall treatment. The two individual actions (i.e., Non-NPAM Action and Graze within window) combined on a single unit also result in an unclassifiable unit-level action (see Appendix D). 'Reclassified Treatment for Unit' shows how the unit was reclassified based on 'Reclassified Actions'(s).

The coordinator must select a 'Reclassified Final Treatment for Unit' from the dropdown field.



The dropdown contains the option to keep the unit as unclassifiable or to be reclassified to one of the four NPAM tall grass actions. The coordinator must make a selection for each unclassifiable unit before proceeding to Step 4. Once all units have been reviewed and reclassified, the coordinator clicks on the "x" to close the screen.

### Step c:

To move on to Step 4, the coordinator clicks on the "Submit Updated Classifications" button. If any units have not been reclassified, a warning will appear:



If the coordinator selected that one or more units should "Remain Unclassifiable", an alert will appear:

Microsoft Access	×
There are 2 Mixed Grass units and 2 Tall Grass unit If you do not reclassify these units as a recognized included in the model weight updating. Do you v units?	is that will remain unclassified. I NPAM action, they will not be vish to proceed without these
	Yes No

Once all records have been reviewed, the coordinator will be able to proceed to Step 4:





#### Step 4:

When the coordinator clicks the button for Step 4, an alert will appear:



In the background, Access is creating several tables that are used by the SAS program. To create the tables, Access compiles the raw monitoring and management data to determine the state for each unit. This information is then used by the SAS program to update the weights on each of the alternative models according to their performance (i.e., according to how well each model predicted the observed outcomes). The coordinator is notified when the process is complete:



At this point, the button for Step 5 becomes enabled.



The coordinator can click on "Step 5", but the button will give an error if the SAS code has not already been run.



To proceed, the coordinator must run the SAS program, which will insert the updated model weights into the appropriate table. Once the SAS program has run, the coordinator can proceed with Step 5.

#### Step 5:

Before running Step 5, the coordinator must be connected to the NPAM site on SharePoint. This is to allow the Access database to upload the recommended actions to the table tlu\_RecAction on SharePoint. If the coordinator is not connected to SharePoint, the following alert will appear:

Microsoft Access	×
You are not connected to the SharePoint site. P browser and connect to the NPAM site before p	'lease open your proceeding.
	ОК

Once connected to SharePoint, the coordinator proceeds with Step 5 by clicking the "Step 5" button. In the background, Access runs several queries that select the current optimal policy from the optimal table and then matches the state of each unit to the recommended management action in the policy. The result of this step is the creation of the recommended management actions tables that are used to create the recommended management actions reports. Additionally, Access will communicate with SharePoint and update the recommendation table to be used on SharePoint. When the processing is complete, an alert appears:



#### Step 6:

At this point, the "Step 6" button becomes enabled.



The coordinator clicks on Step 6 and the following screen will appear:



#### Figure 12: Reports Screen

The top portion of the screen contains two buttons to generate a report that contains the management recommendations for mixed grass units and tall grass units. The bottom portion of the screen contains two buttons to generate a report containing summary information for the mixed grass and tall grass units. The reports are shown below:

#### Step a and Step b:

The management recommendation reports for mixed and tall grass units include the current vegetation and defoliation state of each unit that was active in NPAM and provided vegetation and management data for the current management year. Along with the current state of each unit, management restrictions and the recommended management action for the coming management year are identified. This report is furnished to the cooperators by 31 August of each year.

	Manage	ment Re	comme	enda	tions f	or Mix	ed Gra	ss Unit	s in 201	.2		Monday,	July 23, 2012 11:43:49 AM
Grassland	Complex	Org	Unit	Year	NP Proportion	SB Proportion	KB Proportion	RM Proportion	Vegetation State	Defoliation Level	Years Since Level	Management Restriction	Recommender Managment Action
Mixed Grass Prairie	ARROWWOOD COMPLEX	ARROWWOOD NWR	G14 Pasture 1	2011	0.27	0.22	0.27	0.23	{0-30, Co}	Med	2-4	None	REST
Mixed Grass Prairie	ARROWWOOD COMPLEX	ARROWWOOD NWR	G14 Pasture 2	2011	0.23	0.18	0.24	0.34	{0-30, Co}	Med	2-4	None	REST
Mixed Grass Prairie	ARROWWOOD COMPLEX	ARROWWOOD NWR	G26 Paddock 1	2011	0.02	0.00	0.87	0.12	{0-30, KB}	High	1	None	GRAZE
Mixed Grass Prairie	ARROWWOOD COMPLEX	ARROWWOOD NWR	G26 Paddock 2	2011	0.45	0.05	0.36	0.14	{45-60, KB}	High	1	None	REST
Mixed Grass Prairie	ARROWWOOD COMPLEX	ARROWWOOD NWR	G26 Paddock 3	2011	0.25	0.33	0.34	0.08	{0-30, Co}	High	1	None	GRAZE
Mixed Grass Prairie	ARROWWOOD COMPLEX	ARROWWOOD NWR	G26 Paddock 4	2011	0.09	0.23	0.54	0.14	{0-30, KB}	High	1	None	GRAZE
Mixed Grass Prairie	ARROWWOOD COMPLEX	ARROWWOOD NWR	G28	2011	0.23	0.09	0.51	0.17	{0-30, KB}	Low	1	None	BURN/GRAZE
Mixed Grass Prairie	ARROWWOOD COMPLEX	EDDY COUNTY WPA	Haven Paddock 4	2011	0.83	0.01	0.04	0.13	{60-100, RM}	High	1	None	REST
Mixed Grass Prairie	ARROWWOOD COMPLEX	EDDY COUNTY WPA	Haven Paddock 5	2011	0.51	0.14	0.26	0.09	{45-60, Co}	High	1	No Burn, B/G	GRAZE
Mixed Grass Prairie	ARROWWOOD COMPLEX	FOSTER COUNTY WPA	Topp West Paddock	2011	0.50	0.04	0.28	0.18	{45-60, KB}	High	2-4	None	REST
Mixed Grass	ARROWWOOD COMPLEX	GRIGGS COUNTY WPA	Wogsland	2011	0.46	0.25	0.20	0.09	{45-60, Co}	Low	5+	None	BURN/GRAZE

Figure 13: Management Recommendations for Mixed Grass Units

3	Manag	omont R	ocommu	and	ntions f	for Tall	Grace	Unite ii	2012			Monday	/, July 23, 201
-	Manage	ement no	ecomm	enua	1110115 1	or ran	urass	OIIIts II	12012				11:45:02 AM
rassland	Complex	Org	Unit	Year	NP Proportion	SB Proportion	KB Proportion	RM Proportion	Vegetation State	Defoliation Level	Years Since Level	Management Restriction	Recommende Managment Action
all irass rairie	BIG STONE NWR	BIG STONE NWR	Laskowske	2011	0.57	0.25	0.10	0.08	{45-60, SB}	Med	2-4	None	BURN W/IN WINDOW
all irass rairie	DETROIT LAKES WMD	CLAY COUNTY WPA OF MINNESOTA	Hoykens WPA North	2011	0.76	0.03	0.05	0.17	{60-100, RM}	Low	1	No Graze	DEFOLIATE
all irass rairie	MORRIS WMD	BIG STONE COUNTY WPA	Hillman B	2011	0.63	0.14	0.18	0.05	{60-100, Co}	Low	2-4	None	BURN W/IN WINDOW
all irass rairie	MORRIS WMD	BIG STONE COUNTY WPA	Hillman C	2011	0.24	0.00	0.73	0.02	{0-30, KB}	Low	2-4	None	BURN W/IN WINDOW
all irass rairie	MORRIS WMD	BIG STONE COUNTY WPA	Hillman D	2011	0.99	0.00	0.00	0.00	{60-100, KB}	Med	1	None	BURN W/IN WINDOW
all rass rairie	MORRIS WMD	LAC QUI PARLE COUNTY WPA	Florida Creek A	2011	0.89	0.00	0.03	0.08	{60-100, RM}	Low	2-4	None	DEFOLIATE
all rass rairie	MORRIS WMD	LAC QUI PARLE COUNTY WPA	Florida Creek B	2011	0.45	0.55	0.00	0.01	{30-45, SB}	Low	2-4	None	BURN W/IN WINDOW
all rass rairie	MORRIS WMD	LAC QUI PARLE COUNTY WPA	Florida Creek C	2011	1.00	0.00	0.00	0.00	{60-100, RM}	Low	2-4	None	DEFOLIATE
all rass	MORRIS	LAC QUI PARLE	Freeland B	2011	0.47	0.02	0.02	0.49	{45-60, RM}	High	1	None	GRAZE W/IN

Figure 14: Management Recommendations for Tall Grass Units

#### Step c:

The summary file for mixed grass units includes the management, defoliation state, and vegetation state of each unit for the time period from the inception of NPAM (2009) to the most recently processed management year. Only years for which the unit was active are listed. The field "Management Applied" contains the actual action that was implemented on the unit (e.g., Rest, Graze, Burn, Burn/Graze), while the field "Management Classified" contains the final classification of the implemented management actions into one of the four recognized NPAM actions for mixed grass units. Units noted as "Unclassifiable" are those with implemented management actions that did not conform to or could not be accurately assigned to one of the four recognized NPAM actions.

S to	ummary of N o Present	Mixed Grass S	states from P	roject In	ception (	2009)		Saturday, Sej	otember 01, 201 5:36:12 PN
Grassland	Complex	Org	Unit	Management Year	Management Applied	Management Classified	Defoliation Level	Years Since Level	Vegetation State
Mixed Grass Prairie	LAKE ANDES NWR	BON HOMME COUNTY WPA	Hieb	2010	REST	N/A	Low	2-4	{30-45, SB}
Mixed Grass Prairie	LAKE ANDES NWR	BON HOMME COUNTY WPA	Hieb	2011	GRAZE	GRAZE	Low	1	{60-100, SB}
Mixed Grass Prairie	LAKE ANDES NWR	BON HOMME COUNTY WPA	Hieb	2012	GRAZE	GRAZE	Med	1	{60-100, SB}
Mixed Grass Prairie	LAKE ANDES NWR	CHARLES MIX COUNTY WPA	Trout	2011	REST	REST	Med	2-4	{0-30, SB}
Mixed Grass Prairie	LAKE ANDES NWR	CHARLES MIX COUNTY WPA	Trout	2012	GRAZE	GRAZE	Med	1	{0-30, SB}
Mixed Grass Prairie	LAKE ANDES NWR	DOUGLAS COUNTY WPA	Denning	2010	REST	N/A	Low	2-4	{0-30, SB}
Mixed Grass Prairie	LAKE ANDES NWR	DOUGLAS COUNTY WPA	Denning	2011	GRAZE	UNCLASSIFIABLE	Low	1	{0-30, SB}
Mixed Grass Prairie	LAKE ANDES NWR	DOUGLAS COUNTY WPA	Denning	2012	GRAZE	GRAZE	Med	1	{0-30, SB}
Mixed Grass	LONG LAKE WMD	BURLEIGH COUNTY	Crimmins NF Grazing	2009	N/A	N/A	Med	1	{0-30_Co}
Prairie		WPA	Unit					-	(,,
Mixed Grass Prairie	LONG LAKE WMD	BURLEIGH COUNTY WPA	Crimmins NE Grazing Unit	2010	REST	N/A	Med	2-4	{0-30, Co}
Mixed Grass Prairie	LONG LAKE WMD	BURLEIGH COUNTY WPA	Crimmins NE Grazing Unit	2011	BURN	BURN	Med	1	{0-30, Co}
Mixed Grass Prairie	LONG LAKE WMD	BURLEIGH COUNTY WPA	Crimmins NE Grazing Unit	2012	REST	REST	Med	2-4	{0-30, Co}
Mixed Grass Prairie	LONG LAKE WMD	BURLEIGH COUNTY	Rath WPA - #1 Grazing Unit	2009	N/A	N/A	Low	1	{45-60, SB}
Mixed Grass Prairie	LONG LAKE WMD	BURLEIGH COUNTY WPA	Rath WPA - #1 Grazing Unit	2010	GRAZE	N/A	Med	1	{30-45, Co}
Mixed Grass Prairie	LONG LAKE WMD	BURLEIGH COUNTY WPA	Rath WPA - #1 Grazing Unit	2011	GRAZE	GRAZE	Med	1	{30-45, Co}
Mixed Grass Prairie	LONG LAKE WMD	BURLEIGH COUNTY WPA	Rath WPA - #1 Grazing Unit	2012	GRAZE	GRAZE	Med	1	{30-45, Co}

Figure 15: Summary of Mixed Grass Units

#### Step d:

The summary file for tall grass units includes the management, defoliation state, and vegetation state of each unit for the time period from the inception of NPAM (2009) to the most recently processed management year. Only years for which the unit was active are listed. The field "Management Applied" contains the actual action that was implemented on the unit (e.g., Rest, Hay, Graze, Burn, Burn/Graze), while the field "Management Classified" contains the final classification of the implemented management actions into one of the four recognized NPAM actions for tall grass units (i.e., Rest, Defoliate, Graze within window, Burn within window). "Management Classified" for 2009 and 2010 is denoted as "N/A" because the final tall grass framework was not completed until 2011 (namely, the concept of the cool-season window had not yet been developed). Units noted as "Unclassifiable" are those with implemented management actions that did not conform to or could not be accurately assigned to one of the four recognized NPAM actions.

	Summary 2009) to	of Tall Gr Present	ass States	from Pr	oject Inc	eption	Satu	rday, Septem	ber 01, 2012 5:39:10 PM
Grassland	Complex	Org	Unit	Management Year	Management Applied	Management Classified	Defoliation Level	Years Since Level	Vegetation State
Tall Grass Prairie	WAUBAY NWR COMPLEX	CODINGTON COUNTY WPA	Roe E	2009	N/A	N/A	Low	2-4	{0-30, SB}
Tall Grass Prairie	WAUBAY NWR COMPLEX	CODINGTON COUNTY WPA	Roe E	2010	REST	N/A	Low	5+	{0-30, Co}
Tall Grass Prairie	WAUBAY NWR COMPLEX	CODINGTON COUNTY WPA	Roe E	2011	BURN/GRAZE	Unclassifiable	Med	1	{0-30, SB}
Tall Grass Prairie	WAUBAY NWR COMPLEX	CODINGTON COUNTY WPA	Roe E	2012	GRAZE	Graze w/in window	Med	1	{0-30, Co}
Tall Grass Prairie	WAUBAY NWR COMPLEX	CODINGTON COUNTY WPA	Roe F	2009	N/A	N/A	Low	2-4	{0-30, SB}
Tall Grass Prairie	WAUBAY NWR COMPLEX	CODINGTON COUNTY WPA	Roe F	2010	REST	N/A	Low	2-4	{0-30, Co}
Tall Grass Prairie	WAUBAY NWR COMPLEX	CODINGTON COUNTY WPA	Roe F	2011	BURN/GRAZE	Unclassifiable	Med	1	{0-30, KB}
Tall Grass Prairie	WAUBAY NWR COMPLEX	CODINGTON COUNTY WPA	Roe F	2012	BURN	Burn w/in window	Med	1	{0-30, Co}
Tall Grass	WAUBAY NWR	MARSHALL	Buffalo Lake	2010	REST	N/A	Med	2-4	{30-45_Co}
Prairie	COMPLEX	COUNTY WPA	burreno cance	2010					[55 45, 66]
Tall Grass Prairie	WAUBAY NWR COMPLEX	MARSHALL COUNTY WPA	Buffalo Lake	2011	REST	Rest	Low	2-4	{0-30, Co}
Tall Grass Prairie	WAUBAY NWR COMPLEX	MARSHALL COUNTY WPA	Buffalo Lake	2012	REST	Rest	Low	2-4	{30-45, SB}
Tall Grass Prairie	WAUBAY NWR COMPLEX	MARSHALL COUNTY WPA	Buss Paddock 1	2010	REST	N/A	Low	5+	{0-30, Co}
Tall Grass Prairie	WAUBAY NWR COMPLEX	MARSHALL COUNTY WPA	Buss Paddock 1	2011	GRAZE	Defoliate	Low	1	{0-30, Co}
Tall Grass Prairie	WAUBAY NWR COMPLEX	MARSHALL COUNTY WPA	Buss Paddock 1	2012	GRAZE	Defoliate	Low	1	{0-30, SB}

Figure 16: Summary of Tall Grass Units

The coordinator can export each report to excel or a PDF. This is accomplished by clicking on the icon in the upper left hand portion of the screen:



When the excel icon is clicked, the following screen appears. The coordinator can enter the file name and format.

Export - Excel Spread	dsheet	? ×
Select the de	estination for the data you want to export	
Specify the destir	nation file name and format.	
<u>F</u> ile name:	C:\Users\sjacobi\Documents\Summary_PreviousYears_Tall.xls	Browse
File forma <u>t</u> :	Excel 97 - Excel 2003 Workbook (*.xls)	
Specify export op	otions.	
Select t	data with formatting and layout. his option to preserve most formatting and layout information when exporting a table, query, form, or report.	
Open ti Select ti	he destin <u>a</u> tion file after the export operation is complete. his option to view the results of the export operation. This option is available only when you export formatted	i data.
Export Select ti selected	only the <u>s</u> elected records. nis option to export only the selected records. This option is only available when you export formatted data an d.	nd have records
	ОК	Cancel

The report will then open in excel:

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1 Monday, July 23, 2012 2 Grassland 0	0.49312 Complex	S Org	Unit	Management	Year ManagementAp	oplied ManagementClas	sified DefoliationState	YearsSinceDefoliation	VegetationState					
4 Tail Grass Prairie	IS STONE NWI	BIG STONE NWR	Laskowske	2009	N/A	N/A	Med.	1	(45-60, 18)					
5 Tall Grass Prairie	HG STONE NWR	BIG STONE NWR	Laskowske	2010	GRAZE	N/A	Med	1	(60-200, 58)					
6 Tall Grass Prairie 8	SIG STONE NWR	BIG STONE NWR	Laskowske	2011	REST	Rest	Med	24	(45-60, 58)					
8 Tail Grass Prairie 0	DETROIT LAKES WIND	CLAY COUNTY WPA OF MINNESOTA CLAY COUNTY	Hoykens WPA North	2009	N/A	N/A	low	24	(60-100, KB)					
9 Tall Grass Prairie	SETROIT LAKES WIND	WPA OF MINNESOTA	Hoykens WPA North	2010	REST	N/A	Low	24	(60-300, RM)					
10 Tall Grass Prairie C	SETROIT LAKES WIND	CLAY COUNTY WPA OF MINNESOTA	Hoykens WPA North	2011	BURN	Defoliate	Low	1	(80-300, RM)					
12 Tall Grass Prairie 0	DETROIT LAKES WIMD	CLAY COUNTY WPA OF MINNESOTA	Jarvis WPA	2009	N/A	N/A	Low	5.	(30-45, Co)					
13 Talii Grass Prairie	DETROIT LAKES WIMD	CLAY COUNTY WPA OF MINNESOTA	Jarvis WPA	2010	BURN	N/A	Low	1	(60-100, RM)					
14 Tall Grass Prairie	DETROIT LAKES WMD	WPA OF MINNESOTA	Jarvis WPA	2011	REST	Rest	Low	24	(45-60, 58)					
15 16 Tall Grass Prairie C	DETROIT LAKES WIMD	MAHNOMEN COUNTY WPA	Sandy Lake Native	2010	REST	N/A	Low	24	(60-100, Co)					
18 Tall Grass Prairie	DEVILS LAKE WIMD	GRAND FORKS COUNTY WPA	Mekinock	2009	N/A	N/A	Low	2-4	(60-100, 58)					
19 Tall Grass Prairie 0	DEVILS LAKE WIND	COUNTY WPA	Mekinock	2010	BURN	N/A	Low	1	(60-100, 58)					
21 Tall Grass Prairie	MADISON WIND	DEUEL COUNTY WPA	Miller	2010	N/A	N/A	Med	1	N/A					
23 Tall Grass Prairie	MADISON WIND	HAMLIN COUNTY WPA	Cox 1	2009	N/A	N/A	High	1	(60-100, KB)					
24 Tall Grass Prairie	MADISON WIND	HAMLIN COUNTY WPA	Cox 1	2010	GRAZE	N/A	High	1	(45-60, KB)					

Access will give an alert that the export was successful:



When the PDF button is clicked, a window will appear asking for the name of the PDF file to create. Once the name is entered, the coordinator clicks "Publish".

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				Grassland	Complex	Org	Unit	Management Year	Management Applied	Management Classified	Defoliation Level	Years Since Level	Vegetation State			
				Tall Grass Prairie	BIG STONE NWR	BIG STONE NWR	Laskowske	2009	N/A	N/A	Med	1	{45-60, SB}			
				Tall Grass Prairie	BIG STONE NWR	BIG STONE NWR	Laskowske	2010	GRAZE	N/A	Med	1	(60-100, 58)			
				Tall Grass Prairie	BIG STONE NWR	BIG STONE NWR	Laskowske	2011	REST	Rest	Med	2-4	{45-60, SB}			
				Tall Grass Prairie	DETROIT LAKES WMD	CLAY COUNTY WPA OF MINNESOTA	Hoykens WPA North	2009	N/A	N/A	Low	2-4	(60-100, KB)			
				Tall Grass Prairie	DETROIT LAKES WMD	CLAY COUNTY WPA OF MINNESOTA	Hoykens WPA North	2010	REST	N/A	Low	2-4	(60-100, RM)			
				Tall Grass Prairie	DETROIT LAKES WMD	CLAY COUNTY WPA OF MINNESOTA	Hoykens WPA North	2011	BURN	Defoliate	Low	1	(60-100, RM)			
				Tall Grass Prairie	DETROIT LAKES WMD	CLAY COUNTY WPA OF MINNESOTA	Jarvis WPA	2009	N/A	N/A	Low	5+	(30-45, Co)			
				Tall Grass Prairie	DETROIT LAKES WMD	CLAY COUNTY WPA OF MINNESOTA	Jarvis WPA	2010	BURN	N/A	Low	1	(60-100, RM)			
				Tall Grass Prairie	DETROIT LAKES WMD	CLAY COUNTY WPA OF MINNESOTA	Jarvis WPA	2011	REST	Rest	Low	2-4	{45-60, SB}			
				Tall Grass Prairie	DETROIT LAKES WMD	MAHNOMEN COUNTY WPA	Sandy Lake Native	2010	REST	N/A	Low	2-4	(60-100, Co)			
				Tall Grass Prairie	DEVILS LAKE WMD	GRAND FORKS COUNTY WPA	Mekinock	2009	N/A	N/A	Low	2-4	(60-100, 58)			
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Access will alert the coordinator that the export was successful.



## **Summaries Tab**

In addition to the Processing Actions tab, the Coordinator Actions screen has two additional tabs. The second tab is called Summaries.

Coordinator Actions					23
Processing Actions	Summaries	Previous Years' Reports			
				_	
Select the Manage	ment Year fo	r Reports:			
Select Report Type	2:				
Select Summary Le	evel:		•		
		Generate Report			
—Management Da	ta			_	
Select the Manage	ment Year fo	Reports:			
Select Report Type	:		•		=
Select Grassland T	ype:				
		Generate Report			

Figure 17: Summaries Screen

#### **Vegetation Data**

At the top of the form, there are several dropdown boxes for Vegetation Data summaries. The bottom portion of the form has several dropdown boxes for Management Data summaries. All years for which data exists are listed in the Management Year dropdown for vegetation data:

For each year, there are several available report types:

E Coordinator Actions			۵	23
Processing Actions Summaries	Previous Years' Reports			
			 _	
Select the Management Year f	or Reports:	2009 💌		
Select Report Type:				
Select Summary Level:		Individual Plant Code 10 Plant Code Categories		
		2 Plant Code Categories		
	Generate Report			

The levels available in the Summary Level dropdown depend on the Report Type selected. The individual plant code report can only be summarized at the state level. The other two reports can be summarized at the state level or the entire project level. Each report is shown below:

	Indi	vidual Plant Code by State in 2011 Tuesday,	, July 24, 2012		
2			2:30:52 PM		
State	Code	Description	Percentage	Number of Along Tra	Stop
MN	-9	Data not recorded / data lost	0.00%		
MN	11	snowberry dense; other plants few or none	0.00%		
MN	12	snowberry; remainder mostly NATIVE grass-forb types	0.67%		4
MN	13	snowberry; remainder mostly Kentucky bluegrass	0.39%		2
MN	14	snowberry; remainder mostly smooth brome (or quackgrass)	0.43%		2
MN	15	silverberry; add modifier 15[2] = NATIVE grass-forb, 15[3] = KY bluegrass, 15[4] = brome (or quack), 15[5] = crested	0.00%		
MN	15.2	Silverberry / Native understory	0.01%		
MN	15.3	Silverberry / Ky Bluegrass understory	0.00%		
MN	15.4	Silverberry / Smooth Broome understory	0.01%		
MN	15.5	Silverberry / Crested wheatgrass understory	0.00%		
MN	16	snowberry; remainder mostly crested wheatgrass	0.00%		
MN	18	meadowsweet; add modifier as above 18[2], 18[3], or 18[4], 18[5] = crested	0.00%		
MN	18.2	Meadowsweet / Native understory	0.00%		
MN	18.3	Meadowsweet / Kentucky Bluegrass understory	0.03%		
MN	18.4	Meadowsweet / Smooth Brome understory	0.00%		
MN	18.5	Meadowsweet / Crested wheatgrass understory	0.00%		
MN	19	other low shrub (user defined – add modifier)	0.03%		
MN	21	native shrub (chokecherry, buffaloberry, hawthorn, willow)	2.46%		16
MN	22	shrub-stage aspen	0.13%		
MN	23	introduced shrub (caraganna, Russian olive)	0.00%		
MN	31	aspen	0.21%		1

Figure 18: Individual Plant Code by State Summary

Description	Percentage	Number of Stops along Transects	
Crosted Wheatgrass	1 10%	1222	
Kentucky Bluegrass	29.92%	21974	
Low Chrub	4 05%	51574	
Net Applice Lo	4.03/0	3301	
Not Applicable	4.39%	4872	
Native Grass-Forb	35.03%	38857	
Noxious & Other Weeds	2.58%	2865	
Other	2.38%	2637	
Quackgrass	0.86%	958	
Reed-Canarygrass	0.65%	720	
Smooth Brome	18.83%	20886	
Tall Shrub/Tree	0.50%	555	
Total	100.00%	110928	
		Page 1 of 1	

Figure 19: Ten Plant Code Categories for Entire Project Summary

en Cate	egories by State			- 0	Σ
	Ten Plan Code Catego	ories by S	tate in 2011	Tuesday, July 24, 2012 2:34:19 PM	
State	Description	Percentage	Number of Stops Along Transects		
MN	Crested Wheatgrass	0.00%	0		
MN	Kentucky Bluegrass	16.94%	1135		
MN	Low Shrub	1.58%	106		
MN	Not Applicable	0.60%	40		
MN	Native Grass-Forb	56.93%	3814		
MN	Noxious & Other Weeds	1.36%	91		
MN	Other	4.54%	304		
MN	Quackgrass	0.88%	59		
MN	Reed-Canarygrass	3.82%	256		
MN	Smooth Brome	10.42%	698		
MN	Tall Shrub/Tree	2.94%	197		
	Total:	100.00%	6700		
MT	Crested Wheatgrass	8.57%	540		
MT	Kentucky Bluegrass	17.06%	1075		
MT	Low Shrub	2.56%	161		
MT	Not Applicable	5.27%	332		
MT	Native Grass-Forb	42.51%	2678		
MT	Noxious & Other Weeds	0.84%	53		
МТ	Other	6.40%	403		
MT	Quackgrass	0.00%	0		
мт	Reed-Canarygrass	0.00%	0		

#### Figure 20: Ten Plant Code Categories by State Summary

Two Categories Entire Project							
Two Plant Code Entire Project in	Tuesday, July 24, 2012 2:36:12 PM						
Description							
Not Applicable	2.80%	3110	•				
Non-native	55.23%	61263					
Native	41.97%	46555					
Total:	100.00%	110928	1				
		Page 1 of 1					

Figure 21: Two Plant Code Categories for Entire Project Summary

L	in 2011	es by State	2:37:0
State	Description	Percentage Num	ber of Stops Along Transec
MN	Not Applicable	0.60%	4
MN	Non-native	37.96%	254
MN	Native	61.45%	411
	Total:	100.00%	670
MT	Not Applicable	2.44%	15
MT	Non-native	49.65%	312
MT	Native	47.90%	301
	Total:	100.00%	630
ND	Not Applicable	2.41%	149
ND	Non-native	48.03%	2964
ND	Native	49.56%	3059
	Total:	100.00%	6172
SD	Not Applicable	3.94%	142
SD	Non-native	71.67%	2594
SD	Native	24.39%	882
	Total:	100.00%	3620

Figure 22: Two Plant Code Categories by State Summary

#### **Management Data**

For the Management Data summaries, there are three report types: Classified Management Action, Recommended versus Implemented Action, and Recommended and Implemented Action by Unit. For the 2009 and 2010 management years, the Classified Management Action report for Mixed Grass units is the only available management data summary. This restriction is the result of two things: (1) management recommendations were not provided until the 2011 management year and (2) modifications of the tallgrass framework (namely, the addition of the cool-season window concept) prevented tallgrass actions from being properly classified as one of the accepted NPAM alternatives until the 2011 management year. For 2011 and beyond, each report type is available for each grassland type. Note that the Recommended and Implemented Action by Unit shows both grassland types on a single report. The reports are shown below:

Mixed Grass Implemented Management Actions in 2012								
Implemented Management Action (Classified)	Percentage	Number of Units						
BURN	12.20%	10						
BURN/GRAZE	18.29%	15						
GRAZE	40.24%	33						
REST	28.05%	23						
UNCLASSIFIABLE	1.22%	1						
Total:	100.00%	82						

Figure 23: Mixed Grass Implemented Management Actions Summary

# Tall Grass Implemented Management Actions in 2012

Implemented Management Actions (Classified)	Percentage	Number of Units
BURN W/IN WINDOW	13.51%	5
DEFOLIATE	27.03%	10
GRAZE W/IN WINDOW	8.11%	3
REST	40.54%	15
UNCLASSIFIABLE	10.81%	4
Total	100.00%	37

Figure 24: Tall Grass Implemented Management Actions Summary

Percentage Recommended Versus Friday, Implemented Management Actions for Mixed Grass Units in 2012							
Implemented Management Action (Classified)						Number of Units for	
Recommended Management Action	BURN	BURN/GRAZE	GRAZE	REST	UNCLASSIFIABLE	Recommended Action	
BURN	33.33%	25.00%	8.33%	33.33%	0.00%	12	
BURN/GRAZE	9.09%	27.27%	18.18%	45.45%	0.00%	11	
GRAZE	2.44%	12.20%	65.85%	17.07%	2.44%	41	
REST	17.65%	23.53%	17.65%	41.18%	0.00%	17	

Figure 25: Percentage Recommended Versus Implemented Management Actions for Mixed Grass Units Summary



#### Percentage Recommended Versus Implemented Management Action for Tall Grass Units in 2012

Implemented Management Action (Classified) Number of Units for Recommened Management Action BURN W/IN WINDOW DEFOLIATE GRAZE W/IN WINDOW REST UNCLASSIFIABLE **Recommended Action** BURN W/IN WINDOW 22.73% 27.27% 0.00% 45.45% 4.55% 22 DEFOLIATE 0.00% 0.00% 3 66.67% 33.33% 0.00% GRAZE W/IN WINDOW 0.00% 18.18% 27.27% 27.27% 27.27% 11 REST 0.00% 0.00% 0.00% 100.00% 0.00% 1

Figure 26: Percentage Recommended versus Implemented Management Actions for Tall Grass Units Summary

Re Ac	commende tions by Un	Management	Friday, September 07, 2012 2:48:15 PM		
Grassland	Complex	Org	Unit	Recommended Management Action	Implemented Management Action (Classified)
Mixed Grass Prairie	ARROWWOOD COMPLEX	ARROWWOOD NWR	G14 Pasture 1	REST	BURN
Mixed Grass Prairie	ARROWWOOD COMPLEX	ARROWWOOD NWR	G14 Pasture 2	REST	BURN
Mixed Grass Prairie	ARROWWOOD COMPLEX	ARROWWOOD NWR	G26 Paddock 1	GRAZE	GRAZE
Mixed Grass Prairie	ARROWWOOD COMPLEX	ARROWWOOD NWR	G26 Paddock 2	REST	BURN/GRAZE
Mixed Grass Prairie	ARROWWOOD COMPLEX	ARROWWOOD NWR	G26 Paddock 3	GRAZE	GRAZE
Mixed Grass Prairie	ARROWWOOD COMPLEX	ARROWWOOD NWR	G26 Paddock 4	GRAZE	GRAZE
Mixed Grass Prairie	ARROWWOOD COMPLEX	ARROWWOOD NWR	G28	BURN/GRAZE	REST
Mixed Grass Prairie	ARROWWOOD COMPLEX	EDDY COUNTY WPA	Haven Paddock 4	REST	BURN/GRAZE
Mixed Grass Prairie	ARROWWOOD COMPLEX	EDDY COUNTY WPA	Haven Paddock 5	GRAZE	BURN/GRAZE
Mixed Grass Prairie	ARROWWOOD COMPLEX	FOSTER COUNTY WPA	Topp East Paddock	BURN/GRAZE	BURN/GRAZE
Mixed Grass Prairie	ARROWWOOD COMPLEX	FOSTER COUNTY WPA	Topp West Paddock	REST	BURN/GRAZE
Mixed Grass Prairie	ARROWWOOD COMPLEX	GRIGGS COUNTY WPA	Wogsland	BURN/GRAZE	REST
Mixed Grass Prairie	ARROWWOOD COMPLEX	STUTSMAN COUNTY WPA	Odegaard	GRAZE	REST
Mixed Grass Prairie	ARROWWOOD COMPLEX	STUTSMAN COUNTY WPA	Winberg Unit 1	BURN	BURN

Figure 27: Recommended Versus Implemented Management Actions by Unit Summary

Friday, September 07, 2012

2:44:34 PM

## **Previous Years' Reports Tab**

The last tab on the Coordinator Actions screen is the Summary Files tab:





This screen is used to view the summary file reports for previous year's data that have already been processed. These reports will include summaries of data from project inception (2009) up to the most recent year that has been processed. The reports are made available in this tab, rather than solely under Step 6 of the Processing Actions tab, to allow the coordinator to easily view summaries of previous year's data that have already been processed without going through a "short cuts" version of the Processing Steps (described below). Additionally, the availability of the reports under this tab allows the coordinator to view summaries of previous year's data at any time during the annual cycle, and not simply when processing data for the current year.

## **Short Cuts**

If the coordinator needs to stop working before all the processing actions are completed, the coordinator will be able to use "short cuts" to return to the last completed step when the Access database is reopened.

Whenever the database is opened, the Processing Actions tab will appear with all the buttons disabled, regardless of the completion of any processing actions previously. However, if a step has previously been completed, the coordinator will have the option of moving to the next step as described below.



## Step 1:

When the coordinator selects a management year and clicks on "Step 1", the following alert appears if the coordinator has already completed Step 1 for the selected year.



If the coordinator doesn't wish to re-run this processing step, he/she clicks "No" and Step 2 becomes enabled.



After clicking on "Step 2", if the coordinator has already reviewed the flagged and unclassifiable actions, she/he can proceed to Step 3 by clicking on "Submit Updated Classifications"

E Review Flagged and Unclassifiable Actions		23
Mixed Grass Units		
Review Flagged Actions		
Tall Grass Units		
Review Flagged Actions Unclassifiable Actions	dify tions	
Submit Updated Classifications Close		

The same alerts as previously described for Step 2 will appear if any flagged records have not been reviewed, or if any actions remain unclassifiable.

If no problems exist, the coordinator will be notified that she/he can move on to Step 3:



The same instructions apply to Step 3. After clicking on "Step 3", if the coordinator has already reviewed the unclassifiable units, she/he can proceed to Step 4 by clicking on "Submit Updated Classifications".

Review Unclassifiable Units		23
Mixed Grass Units		
Review and Modify Unclassifiable Units		
Tall Grass Units		
Review and Modify Unclassifiable Units		
Submit Updated Classifications Clos	e	

The same alerts as previously described for Step 3 will appear if any units remain unclassifiable. If no problems exist, the coordinator will be notified that she/he can move on to Step 4:



When the coordinator clicks on "Step 4", she/he will be asked if the updating step should be re-run:

Tables Exist	x
The tables to be sent to the updating prograr re-run the processing step? This will over-wr	m already exist. Would you like to ite the existing tables. Re-run?
	Yes No

If the coordinator selects, "No", Step 5 becomes enabled.

When the coordinator clicks on "Step 5", a similar alert appears:



If the coordinator selects "No", Step 6 becomes enabled.

The user can then click on "Step 6" to create the Management Recommendation and Summary File reports. At any point, the coordinator can choose to re-run any previously completed step. Re-running a previously completed step will require all subsequent steps to be re-run. **Appendix A:** Descriptions of select fields that appear in the forms reviewed when completing Step 2 and Step 3 of the annual Coordinator Processing steps. These descriptions also occur as pop-up windows within the forms themselves when the user clicks on the empty box for the field.

#### Mixed Grass

**Management Number**: Management action number x of y total management actions applied to the unit within the given management year. For example, if a unit received a burn/graze combination, there will be two total management actions. The first action applied during the management year will be number 1 of 2. The second action applied will be number 2 of 2.

**Manage Type**: The management action the cooperator entered into the database as the action that was applied to the unit.

**Classification for Action:** Classification of individual management actions into one of the four NPAM actions. Equal to the 'Manage Type' entered into the database (see Appendix B).

**Classification for Unit:** Classification of the management per unit taking into account all actions that were applied to the unit during the management year. For units with only one management action applied during the management year, this will be the same as 'Classification for Action'. For units with more than one management action applied during the management year, the classification for the unit will depend on the 'Classification for Action' of each action and the existing rules specific to mixed-grass units (see Appendix D).

**Reclassified Action**: Coordinator reclassification of the 'Classification for Action' based upon reviewing actions with flagged fields during Step 2a of the Coordinator Processing steps.

**Reclassified Treatment for Unit**: Reclassification of the management per unit taking into account 'Reclassified Action'(s) that took place during Step 2a of the Coordinator Processing steps.

**Reclassified Final Treatment for Unit**: Coordinator reclassification of units that are "Unclassifiable" according to the 'Reclassified Treatment for Unit'. These "Unclassifiable" units are reviewed as part of Step 3a of the Coordinator Processing steps.

#### Tall Grass

**Management Number**: Management action number x of y total management actions applied to the unit within the given management year. For example, if a unit received a burn and a graze, there will be two total management actions. The first action applied during the management year will be number 1 of 2. The second action applied will be number 2 of 2.

**Manage Type**: The management action the cooperator entered into the database as the action that was applied to the unit.

**Phenology Start**: Classification of the cooperator's entry for phenology of the unit at the start of the graze. Classification is *Before*, *During*, *After*, or *Unknown*; this refers to the timing of the start of the graze relative to the window.

**Phenology End**: Classification of the cooperator's entry for phenology of the unit at the end of the graze. Classification is *Before*, *During*, *After*, or *Unknown*; this refers to the timing of the end of the graze relative to the window.

**Phenology:** Classification of the cooperator's entry for phenology of the unit on the date of the burn. Classification is *Before*, *During*, *After*, or *Unknown*; this refers to the timing of the burn relative to the window.

**Window Start:** Classification of the start of the graze as occurring *Before*, *During*, or *After* the window; this is based on comparing the graze start date to the seasonally appropriate window start and end dates.

**Window End:** Classification of the end of the graze as occurring *Before*, *During*, or *After* the window; this is based on comparing the graze end date to the seasonally appropriate window start and end dates.

**Window:** Classification of the burn as occurring *Before*, *During*, or *After* the window; this is based on comparing the burn date to the seasonally appropriate window start and end dates.

Graze Window Length: Number of graze days that occur during the window.

Window Length: Length of the window in days.

**END:** Number of days that the window extends beyond the end of the graze; a.k.a. recovery time. Calculated as (window end date – graze end date). Only used in treatment classification if the graze ends during the window.

**BEFORE:** Number of days that the start of a graze precedes the opening of the window. Calculated as (window start date – graze start date). Only used in treatment classification if it is a fall graze that starts before the window begins.

**AFTER:** Number of days that the graze extends beyond the close of the window. Calculated as (graze end date – window end date). Only used in treatment classification if the graze ends after the close of the window.

**COVER:** Proportion of the window that is covered by the graze. Calculated as (Graze Window Length / Window Length). Value will be between 0 and 1. Used in treatment classification if the graze spans some portion of the window (i.e., if the entire graze does not occur before the window opened or after the window closed).

**Phenology Classified:** Classification per applied management action using <u>only</u> the phenological data supplied per unit. If phenological data are missing or are insufficient and require the use of the window dates and associated fields (i.e., Window Start, Window End, Window, Graze Window Length, BEFORE, END, AFTER, or COVER), then the classification is "Not Possible".

**Window Classified:** Classification per applied management action using <u>only</u> window data (i.e., Window Start, Window End, Window, and the window derived calculations: Graze Window Length, BEFORE, END, AFTER, COVER).

**Pheno=Window:** True | False response. If 'Phenology Classified' matches 'Window Classified', then TRUE, else FALSE. If the comparison cannot be made because one or both is "Not Possible", then N/A.

**Classification for Action:** Classification of individual management actions into one of the four NPAM actions. Equal to 'Phenology Classified' unless the field is marked as "Not Possible", in which case it is equal to 'Window Classified' (see Appendix B).

**Classification for Unit:** Classification of the management per unit taking into account all actions that were applied to the unit during the management year. For units with only one management action applied during the management year, this will be the same as 'Classification for Action'. For units with more than one management action applied during the management year, the classification for the unit will depend on the 'Classification for Action' of each action and the existing rules specific to tallgrass units (see Appendix D).

**Reclassified Action**: Coordinator reclassification of the 'Classification for Action' based upon reviewing flagged actions during Step 2b of the Coordinator Processing steps and based upon reviewing unclassifiable or flagged and unclassifiable actions during Step 2c of the Coordinator Processing steps.

**Reclassified Treatment for Unit**: Reclassification of the management per unit taking into account 'Reclassified Action'(s) that took place during Step 2b and Step 2c of the Coordinator Processing steps.

**Reclassified Final Treatment for Unit**: Coordinator reclassification of units that are "Unclassifiable" according to the 'Reclassified Treatment for Unit'. These "Unclassifiable" units are reviewed as part of Step 3b of the Coordinator Processing steps.

**Appendix B**: Description of the rules the Access Database uses in Step 2 of the Coordinator Processing Steps to classify each management action that the cooperator entered into the database ('Manage Type') into one of the four recognized NPAM actions ('Classification for Action'). Appendix A includes definitions of several of the terms used in these rules. Appendix C provides visual depictions of the rules used to classify a graze implemented on a tallgrass unit to supplement these verbal rules.

#### Mixed Grass

- If 'Manage Type' is Rest then 'Classification for Action' is REST
- If 'Manage Type' is Graze then 'Classification for Action' is GRAZE
- If 'Manage Type' is Burn then 'Classification for Action' is BURN

#### Tall Grass

- If 'Manage Type' is Rest then 'Classification for Action' is REST
- If 'Manage Type' is Hay then 'Classification for Action' is DEFOLIATE
- If 'Manage Type' is Graze then:

Phenology Classified: Fall or Spring Graze (i.e., graze starts before or after January 1)

- 'Phenology Start' = Before and 'Phenology End' = Before then 'Phenology Classified' is DEFOLIATE
- 'Phenology Start' = Unknown and 'Phenology End' = Before then 'Phenology Classified' is DEFOLIATE
- 'Phenology Start' = After and 'Phenology End' = After then 'Phenology Classified' is DEFOLIATE
- 'Phenology Start' = After and 'Phenology End' = Unknown then 'Phenology Classified' is DEFOLIATE
- 'Phenology Start' and 'Phenology End' are any other combination than outlined above, then 'Phenology Classified' is NOT POSSIBLE

<u>Window Classified</u>: Fall or Spring Graze (i.e., graze starts before or after January 1)

- 'Window Start' = Before and 'Window End' = Before then 'Window Classified' is DEFOLIATE
- 'Window Start' = Unknown and 'Window End' = Before then 'Window Classified' is DEFOLIATE
- 'Window Start' = After and 'Window End' = After then 'Window Classified' is DEFOLIATE
- 'Window Start' = After and 'Window End' = Unknown then 'Window Classified' is DEFOLIATE

Window Classified: Fall Graze (i.e., the graze starts before January 1)

- 'Window Start' = Before **and** 'Window End' = During **and** 
  - 'Graze Window Length' >= 14 days or 'COVER' = 1.0 and 'BEFORE' <= 14 days and 'END' <= 14 days then 'Window Classified' is GRAZE W/IN WINDOW</li>
  - else 'Window Classified' is DEFOLIATE
- 'Window Start' = During **and** 'Window End' = During **and** 
  - 'Graze Window Length' >= 14 days or 'COVER' = 1.0 and 'END' <= 14 days then 'Window Classified' is GRAZE W/IN WINDOW
  - else 'Window Classified' is DEFOLIATE
- 'Window Start' = During and 'Window End' = After and
  - 'Graze Window Length' >= 14 days or 'COVER' = 1.0 and 'AFTER' <= 28 days then 'Window Classified' is GRAZE W/IN WINDOW
  - else 'Window Classified' is DEFOLIATE
- 'Window Start' = Before and 'Window End' = After and
  - 'BEFORE' <= 14 days and 'AFTER' <= 28 days then 'Window Classified' is GRAZE W/IN WINDOW
  - else 'Window Classified' is DEFOLIATE

#### <u>Window Classified</u>: Spring Graze (i.e., the graze starts after January 1)

- 'Window Start' = Before **and** 'Window End' = During **and** 
  - 'Graze Window Length' >= 14 days or 'COVER' = 1.0 and 'END' <= 7 days then 'Window Classified' is GRAZE W/IN WINDOW
  - else 'Window Classified' is DEFOLIATE
- 'Window Start' = During **and** 'Window End' = During **and** 
  - 'Graze Window Length' >= 14 days or 'COVER' = 1.0 and 'END' <= 7 days then 'Window Classified' is GRAZE W/IN WINDOW
  - else 'Window Classified' is DEFOLIATE
- 'Window Start' = During and 'Window End' = After and
  - 'Graze Window Length' >= 14 days or 'COVER' = 1.0 and 'AFTER' <= 14 days then 'Window Classified' is GRAZE W/IN WINDOW
  - else 'Window Classified' is DEFOLIATE
- 'Window Start' = Before **and** 'Window End' = After **and** 
  - 'AFTER' <= 14 days then 'Window Classified' is GRAZE W/IN WINDOW</li>
  - else 'Window Classified' is DEFOLIATE

Classification for Action

- If 'Phenology Classified' is not N/A or NOT POSSIBLE, then 'Classification for Action' = 'Phenology Classified'
- If 'Phenology Classified' = N/A or NOT POSSIBLE, then 'Classification for Action' = 'Window Classified'
- If 'Phenology Classified' = N/A or NOT POSSIBLE and 'Window Classified' = N/A then 'Classification for Action' = UNCLASSIFIABLE

• If 'Manage Type' is Burn then:

#### Phenology Classified

- 'Phenology' = Before then 'Phenology Classified' is DEFOLIATE
- 'Phenology' = During then 'Phenology Classified' is BURN W/IN WINDOW
- 'Phenology' = After then 'Phenology Classified' is DEFOLIATE
- 'Phenology' = Unknown then 'Phenology Classified' is N/A

### Window Classified

- 'Window' = Before then 'Window Classified' is DEFOLIATE
- 'Window' = During then 'Window Classified' is BURN W/IN WINDOW
- 'Window' = After then 'Window Classified' is DEFOLIATE
- 'Window' = Unknown then 'Window Classified' is N/A

### Classification for Action

- If 'Phenology Classified' is not N/A, then 'Classification for Action' = 'Phenology Classified'
- If 'Phenology Classified' = N/A, then 'Classification for Action' = 'Window Classified'
- If 'Phenology Classified' = N/A and 'Window Classified' = N/A then 'Classification for Action' = UNCLASSIFIABLE

**Appendix C**: Visual depiction of the tallgrass rules for classification of grazes relative to the window.

The gray box represents the window.

The black line represents the graze.

g = the length of the graze in days

gwl = the number of graze days that fall within the window

*wl* = the length of the window in days

*cover = gwl/wl*; the proportion of the window that is covered by the graze

- b = Before. The number of days that the start of a graze precedes the opening of the window. Calculated as (window start date – graze start date).
- e = End. Number of days that the window extends beyond the end of the graze; a.k.a. recovery time.
   Calculated as (window end date graze end date).
- *a* = After. The number of days that the graze extends beyond the close of the window. Calculated as (graze end date window end date).
- Phenology start = Classification of the cooperator's entry for phenology of the unit at the start of the graze. Classification is 'Before', 'During', or 'After', which refers to the timing of the start of the graze relative to the window.
- Phenology end = Classification of the cooperator's entry for phenology of the unit at the end of the graze. Classification is 'Before', 'During', or 'After', which refers to the timing of the end of the graze relative to the window.
- *Window start* = Classification of the start of the graze as occurring 'Before', 'During', or 'After' the window; this is based on comparing the graze start date to the seasonally appropriate window start and end dates.
- *Window end* = Classification of the end of the graze as occurring 'Before', 'During', or 'After' the window; this is based on comparing the graze end date to the seasonally appropriate window start and end dates.

#### **Classification Rules: Fall**

Entire graze occurs before the window then classify as Defoliate. *Phenology start* | *Phenology end* = Before | Before



Entire graze occurs after the window then classify as Defoliate. *Phenology start* | *Phenology end* = After | After

3)

1)



Graze starts before and ends during the window.

#### Window start | Window end = Before | During

If  $gwl \ge 14$  days or cover = 1.0 and b  $\le 14$  days and  $e \le 14$  days then classify as Graze within window, else Defoliate.

4)  $gwl e \\ wl$ 

Entire graze occurs within the window.

Window start | Window end = During | During

If  $gwl \ge 14$  days **or** cover = 1.0 **and**  $e \le 14$  days then classify as Graze within window, else Defoliate.

5) gwl a gwl a wl

Graze starts during and ends after the window.

Window start | Window end = During | After

If  $gwl \ge 14$  days or cover = 1.0 and  $a \le 28$  days then classify as Graze within window, else Defoliate.

6)



Graze spans the window. Window start | Window end = Before | After If  $gwl \ge 14$  days **or** cover = 1.0 **and**  $b \le 14$  days **and**  $a \le 28$  days then classify as Graze within window, else Defoliate.

The grazes depicted in scenarios 1 and 2 can be classified solely based on the phenological responses provided by the cooperator for the specific unit (*Phenology start* and *Phenology end*). Scenarios 3 – 6, where the graze overlaps the window in some way, require the use of the window dates to determine *Window start*, *Window end*, and the calculated variables (i.e., *gwl*, *wl*, cover, *b*, *e*, and *a*) necessary to classify the graze as a 'Graze within window' or 'Defoliate'.

**Classification Rules: Spring** 



Entire graze occurs before the window then classify as Defoliate. *Phenology start* | *Phenology end* = Before | Before

2)



Entire graze occurs after the window then classify as Defoliate. *Phenology start* | *Phenology end* = After | After

3)



Graze starts before and ends during the window. Window start | Window end = Before | During If  $gwl \ge 14$  days **or** cover = 1.0 **and**  $e \le 7$  days then classify as Graze within window, else Defoliate.

4)



Entire graze occurs within the window.

Window start | Window end = During | During

If  $gwl \ge 14$  days or cover = 1.0 and  $e \le 7$  days then classify as Graze within window, else Defoliate.

5)



Graze starts during and ends after the window. Window start | Window end = During | After If  $gwl \ge 14$  days **or** *cover* = 1.0 **and**  $a \le 14$  days then classify as Graze within window, else Defoliate.

6)



Graze spans the window. *Window start* | *Window end* = Before | After If  $gwl \ge 14$  days **or** *cover* = 1.0 **and**  $a \le 14$  days then classify as Graze within window, else Defoliate.

The grazes depicted in scenarios 1 and 2 can be classified solely based on the phenological responses provided by the cooperator for the specific unit (*Phenology start* and *Phenology end*). Scenarios 3 – 6, where the graze overlaps the window in some way, require the use of the window dates to determine *Window start*, *Window end*, and the calculated variables (i.e., *gwl, wl*, cover, *e*, and *a*) necessary to classify the graze as a 'Graze within window' or 'Defoliate'.

**Appendix D**: Description of the rules the Access Database uses in Step 3 of the Coordinator Processing Steps to classify the management per unit ('Classification for Unit') into one of the four recognized NPAM actions given the classified management actions ('Classification for Action') that occurred on the unit during the given management year. If the unit received only one management action within the management year, the classification for the unit will be the same as the classification for the single action. If, however, the unit received more than one management action during the management year, the rules listed in this appendix are used to classify the overall action for the unit. "Action" refers to 'Classification for Action'. "Classify the unit" refers to 'Classification for Unit'.

#### Mixed-Grass

- If Rest is the only action indicated, then classify the unit as REST<sup>1</sup>
- If Graze is the only action indicated, then classify the unit as GRAZE
- If Burn is the only action indicated, then classify the unit as BURN
- If Burn and Graze are the only action indicated, then classify the unit as BURN/GRAZE
- If some other combination of actions occur, then classify the unit as UNCLASSIFIABLE<sup>2</sup>

#### <u>Tallgrass</u>

- If Rest is the only action indicated, then classify the unit as REST<sup>1</sup>
- If Defoliate is the only action indicated then classify the unit as DEFOLIATE
- If Graze within window is the only action indicated then classify the unit as GRAZE WITHIN WINDOW
- If Burn within window is the only action indicated then classify the unit as BURN WITHIN WINDOW
- If Defoliate and Graze within window are the only actions indicated then classify the unit as UNCLASSIFIABLE
- If Defoliate and Burn within window are the only actions indicated then classify the unit as UNCLASSIFIABLE
- If Burn within window and Graze within window are the only actions indicated then classify the unit as UNCLASSIFIABLE
- If some other combination of actions occur, then classify the unit as UNCLASSIFIABLE<sup>2</sup>

<sup>1</sup>While the data entry interface does not allow Rest to overlap with another NPAM action, this rule exists in case the Coordinator reclassifies a management action from an active treatment to a Rest in Step 2 of the Coordinator Processing steps. If the Coordinator does this to a management action that is one of two or more actions on that unit during the management year, then a Rest will overlap with another action.

<sup>2</sup> This is a catch all. It will catch Coordinator reclassification of actions to "Rest" that overlap with other treatments on the unit during the same management year. It will also catch Coordinator reclassification of actions to "Non-NPAM Action". These reclassifications of actions, if they occurred, would have taken place during Step 2 of the Coordinator Processing steps.